

10/609,456

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TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS 1 Web Page URLs for STN Seminar Schedule - N. America  
NEWS 2 "Ask CAS" for self-help around the clock  
NEWS 3 May 12 EXTEND option available in structure searching  
NEWS 4 May 12 Polymer links for the POLYLINK command completed in REGISTRY  
NEWS 5 May 27 New UPM (Update Code Maximum) field for more efficient patent  
SDIs in CApus  
NEWS 6 May 27 CApus super roles and document types searchable in REGISTRY  
NEWS 7 Jun 28 Additional enzyme-catalyzed reactions added to CASREACT  
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NEWS 10 Jul 30 BEILSTEIN on STN workshop to be held August 24 in conjunction  
with the 228th ACS National Meeting  
NEWS 11 AUG 02 IFIPAT/IFIUDB/IFICDB reloaded with new search and display  
fields  
NEWS 12 AUG 02 CApus and CA patent records enhanced with European and Japan  
Patent Office Classifications  
NEWS 13 AUG 02 STN User Update to be held August 22 in conjunction with the  
228th ACS National Meeting  
NEWS 14 AUG 02 The Analysis Edition of STN Express with Discover!  
(Version 7.01 for Windows) now available  
NEWS 15 AUG 04 Pricing for the Save Answers for SciFinder Wizard within  
STN Express with Discover! will change September 1, 2004  
NEWS 16 AUG 27 BIOCOMMERCE: Changes and enhancements to content coverage  
NEWS 17 AUG 27 BIOTECHABS/BIOTECHDS: Two new display fields added for legal  
status data from INPADOC  
NEWS 18 SEP 01 INPADOC: New family current-awareness alert (SDI) available  
NEWS 19 SEP 01 New pricing for the Save Answers for SciFinder Wizard within  
STN Express with Discover!  
NEWS 20 SEP 01 New display format, HITSTR, available in WPIDS/WPINDEX/WPIX  
NEWS 21 SEP 14 STN Patent Forum to be held October 13, 2004, in Iselin, NJ  
  
NEWS EXPRESS JULY 30 CURRENT WINDOWS VERSION IS V7.01, CURRENT  
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),  
AND CURRENT DISCOVER FILE IS DATED 11 AUGUST 2004  
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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 15:22:41 ON 21 SEP 2004

=> fil ref

'REF' IS NOT A VALID FILE NAME  
SESSION CONTINUES IN FILE 'HOME'

Enter "HELP FILE NAMES" at an arrow prompt (=>) for a list of files that are available. If you have requested multiple files, you can specify a corrected file name or you can enter "IGNORE" to continue accessing the remaining file names entered.

=> fil reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 15:23:19 ON 21 SEP 2004

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STRUCTURE FILE UPDATES: 20 SEP 2004 HIGHEST RN 748739-98-2

DICTIONARY FILE UPDATES: 20 SEP 2004 HIGHEST RN 748739-98-2

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

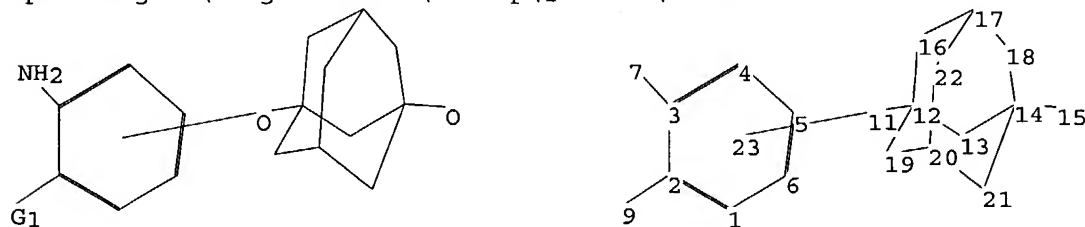
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10609456.str



chain nodes :

7 9 11 15

ring nodes :

1 2 3 4 5 6 12 13 14 16 17 18 19 20 21 22

chain bonds :

2-9 3-7 11-12 14-15

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 12-13 12-16 12-19 13-14 14-18 14-21 16-17  
17-18 17-22 19-20 20-21 20-22

exact/norm bonds :

2-9 3-7 11-12 12-13 12-16 12-19 13-14 14-15 14-18 14-21 16-17 17-18  
17-22 19-20 20-21 20-22

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

G1:O,S

G2:C,O,S,N

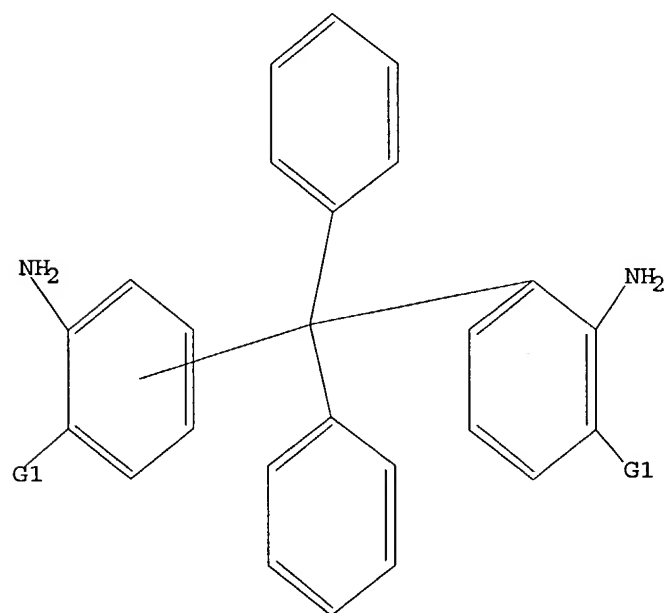
Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 9:CLASS 11:CLASS 12:Atom  
13:Atom 14:Atom 15:CLASS 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom  
22:Atom 23:CLASS

L1 STRUCTURE UPLOADED

=> d query

L1 STR



G1 O,S

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 15:23:38 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 6 TO ITERATE

100.0% PROCESSED

6 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 6 TO 266  
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 full

FULL SEARCH INITIATED 15:23:41 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 145 TO ITERATE

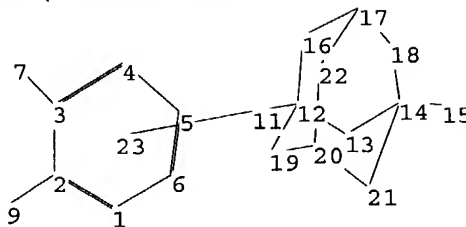
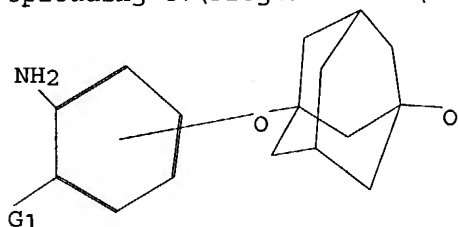
100.0% PROCESSED 145 ITERATIONS  
SEARCH TIME: 00.00.01

0 ANSWERS

L3 0 SEA SSS FUL L1

=>

Uploading C:\Program Files\Stnexp\Queries\10609456.str



chain nodes :

7 9 11 15

ring nodes :

1 2 3 4 5 6 12 13 14 16 17 18 19 20 21 22

chain bonds :

2-9 3-7 11-12 14-15

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 12-13 12-16 12-19 13-14 14-18 14-21 16-17

17-18 17-22 19-20 20-21 20-22

exact/norm bonds :

2-9 3-7 11-12 12-13 12-16 12-19 13-14 14-15 14-18 14-21 16-17 17-18

17-22 19-20 20-21 20-22

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

G1:O,S

G2:C,O,S,N

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 9:CLASS 11:CLASS 12:Atom

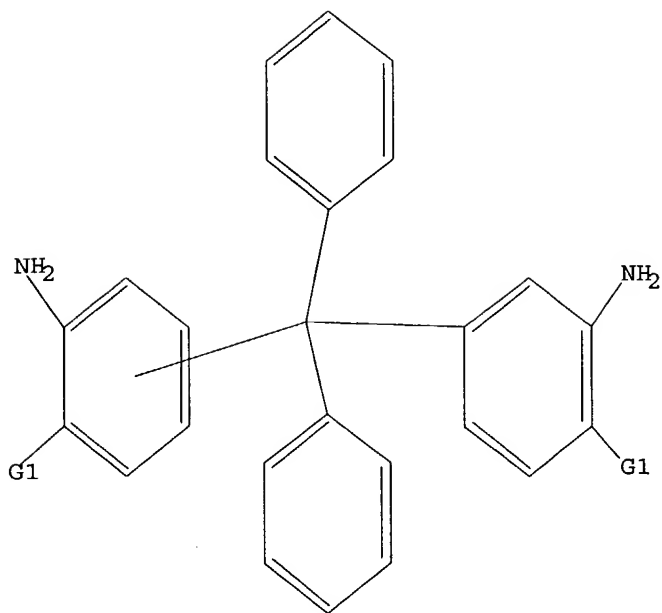
13:Atom 14:Atom 15:CLASS 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom

22:Atom 23:CLASS

L4 STRUCTURE UPLOADED

=> d query

L4 STR



G1 O,S

Structure attributes must be viewed using STN Express query preparation.

=> s l4

SAMPLE SEARCH INITIATED 15:24:18 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 95 TO ITERATE

100.0% PROCESSED 95 ITERATIONS 0 ANSWERS  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 1316 TO 2484  
PROJECTED ANSWERS: 0 TO 0

L5 0 SEA SSS SAM L4

=> s l4 full

FULL SEARCH INITIATED 15:24:22 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 2113 TO ITERATE

100.0% PROCESSED 2113 ITERATIONS 6 ANSWERS  
SEARCH TIME: 00.00.01

L6 6 SEA SSS FUL L4

=> fil caplus

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
310.84	311.05

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 15:24:26 ON 21 SEP 2004  
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FILE COVERS 1907 - 21 Sep 2004 VOL 141 ISS 13  
FILE LAST UPDATED: 20 Sep 2004 (20040920/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l6

L7 4 L6

=> d l7 1-4 abs ibib hitstr

L7 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN

AB The title materials, which can be easily applied to electronic components and, after cyclization, have good insulating properties and resistance to Chems. and heat, are poly(2-hydroxyamides) of specified structure.

Adding

95 mmol 2,6-naphthalenedicarbonyl chloride to 100 mmol 4,4'-(diphenylmethylene)bis(2-aminophenol) in N-methylpyrrolidone stirred at 10°, stirring for 1 h at 10° and 1 h at 20°, adding 10 mmol 5-norbornene-2,3-dicarboxylic anhydride in 50 mL γ-butyrolactone dropwise at 10°, and stirring at 10° for 1 h and 20° for 1 h gave a polymer (I). Spin-coating of a solution of I on a wafer, heating at 120, 200, and 425° for 1, 2, and 60 min, resp., and determination of dielec constant and chemical

stability are exemplified.

ACCESSION NUMBER: 2004:5185 CAPLUS

DOCUMENT NUMBER: 140:78187

TITLE: Polymeric insulation for metalization with aluminum and copper

INVENTOR(S): Seil, Recai; Walter, Andreas; Maltnerberger, Anna;

Lowack, Klaus; Malik, Marcus

PATENT ASSIGNEE(S): Infineon Technologies Ag, Germany

SOURCE: Eur. Pat. Appl., 41 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1375563	A1	20040102	EP 2003-14160	20030624
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
DE 10228769	A1	20040205	DE 2002-10228769	20020627
CH 1472195	A	20040204	CN 2003-145750	20030627
JP 2004099873	A2	20040402	JP 2003-184081	20030627
US 2004082756	A1	20040429	US 2003-609453	20030627
PRIORITY APPLN. INFO.:			DE 2002-10228769	A 20020627

IT 640298-31-3D, end-capped with norbornenedicarboxylic anhydride, cyclized 640298-33-5D, end-capped with norbornenedicarboxylic anhydride, cyclized 640298-39-1D, end-capped with norbornenedicarboxylic acid, cyclized 640298-42-6D, cyclized RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); PRP (Properties); TEM (Technical or engineered material use); PROC (Process); USES (Uses)

(polymeric insulation for metalization with aluminum and copper)

RN 640298-31-3 CAPLUS

CN 2,6-Naphthalenedicarbonyl dichloride, polymer with 4,4'-(diphenylmethylene)bis[2-aminophenol] (9CI) (CA INDEX NAME)

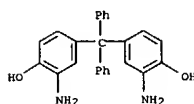
CM 1

CRN 20638-06-6

CMF C25 H22 N2 O2

L7 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN

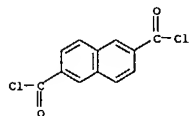
(Continued)



CM 2

CRN 2351-36-2

CMF C12 H6 C12 O2



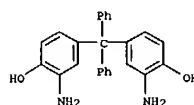
RN 640298-33-5 CAPLUS

CN [1,1'-Biphenyl]-4,4'-dicarbonyl dichloride, polymer with 4,4'-(diphenylmethylene)bis[2-aminophenol] (9CI) (CA INDEX NAME)

CM 1

CRN 20638-06-6

CMF C25 H22 N2 O2



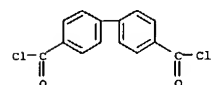
CM 2

CRN 2351-37-3

CMF C14 H8 C12 O2

L7 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN

(Continued)



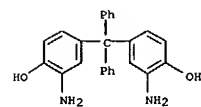
RN 640298-39-1 CAPLUS

CN [1,1'-Biphenyl]-4,4'-dicarbonyl dichloride, polymer with 1,4-benzenedicarbonyl dichloride and 4,4'-(diphenylmethylene)bis[2-aminophenol] (9CI) (CA INDEX NAME)

CM 1

CRN 20638-06-6

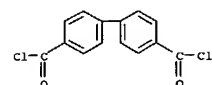
CMF C25 H22 N2 O2



CM 2

CRN 2351-37-3

CMF C14 H8 C12 O2



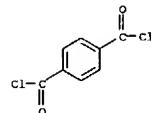
CM 3

CRN 100-20-9

CMF C8 H4 C12 O2

L7 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN

(Continued)



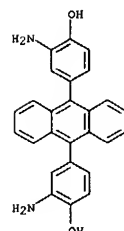
RN 640298-42-6 CAPLUS

CN 2,6-Naphthalenedicarbonyl dichloride, polymer with 4,4'-(9,10-anthracenediyl)bis[2-aminophenol], [1,1'-biphenyl]-4,4'-dicarbonyl dichloride and 4,4'-(diphenylmethylene)bis[2-aminophenol] (9CI) (CA INDEX NAME)

CM 1

CRN 640298-41-5

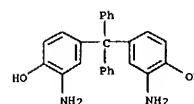
CMF C26 H20 N2 O2



CM 2

CRN 20638-06-6

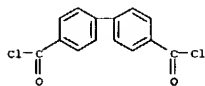
CMF C25 H22 N2 O2



L7 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

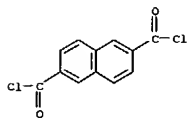
CM 3

CRN 2351-37-3  
CMF C14 H8 C12 O2



CM 4

CRN 2351-36-2  
CMF C12 H6 C12 O2



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE  
FORMAT

L7 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN

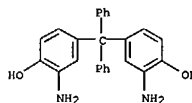
AB The title compds., useful in production of insulating polymers (e.g., polybenzoxazoles, polybenzothiazoles), are prepared by nitrosation of the corresponding phenols and catalytic hydrogenation of the nitro(s) compds.

Adding 20 mL isoamyl nitrite dropwise to 57 mmol 4,4'-(diphenylmethylen)bisphenol in 100 mL AcOH at room temperature gave 91% 4,4'-(diphenylmethylen)bis(2-nitrosophenol) (II). Hydrogenation of 50 mmol I in 250 mL THF over 2.00 g 5% Pd/C catalyst at room temperature/2 bar for 24 h gave 94% 4,4'-(diphenylmethylen)bis(2-aminophenol), isolated as the hydrochloride.

ACCESSION NUMBER: 2004:5168 CAPLUS  
DOCUMENT NUMBER: 140:77566  
TITLE: Preparation of bis-2-amino(thio)phenols for use in heterocyclic polymers  
INVENTOR(S): Walter, Andreas; Gmüch, Ingo; Maltenberger, Anna; Sezi, Recai; Hartmann, Horst  
PATENT ASSIGNEE(S): Infineon Technologies Ag, Germany  
SOURCE: Eur. Pat. Appl., 17 pp.  
CODEN: EPXXDW  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1375471	A1	20040102	EP 2003-12042	20030528
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
DE 10228763	A1	20040129	DE 2002-10228763	20020627
JP 2004026931	A2	20040129	JP 2003-180250	20030624
CN 1470501	A	20040128	CN 2003-145282	20030627
US 2004049081	A1	20040311	US 2003-609456	20030627
PRIORITY APPL. INFO.:			DE 2002-10228763	A 20020627

OTHER SOURCE(S): MARPAT 140:77566  
IT 20638-06-6P  
RL: IMF (Industrial manufacture); PREP (Preparation) (preparation of diaminobisphenols)  
RN 20638-06-6 CAPLUS  
CN Phenol, 4,4'-(diphenylmethylen)bis(2-amino- (8CI, 9CI) (CA INDEX NAME)



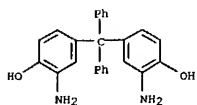
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE  
FORMAT

L7 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN

AB The title compds. are prepared by reduction of bis-ortho-nitrophenols. To increase the purity and the yield (up to 96%) of the product, the process involves electrochem. reduction on a Pb cathode in a HCl solution of MeOH, at a c.d. of 0.5-3 A/sq dm at 25-35°, in the presence of SnCl2.

ACCESSION NUMBER: 1970:74128 CAPLUS  
DOCUMENT NUMBER: 72:74128  
TITLE: Aminobisphenols  
INVENTOR(S): Korshak, V. V.; Tseitlin, G. M.; Kruglikov, S. S.; Pavlov, A. I.  
PATENT ASSIGNEE(S): Mendeleev, D. I., Chemical-Technological Institute, Moscow  
SOURCE: U.S.S.R. From: Otkrytiya, Izobret., Prom. Obratzy, Tovarnye Znaki 1969, 46(26), 25.  
CODEN: URXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Russian  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
SU 250155		19690812	SU	19650720
IT 20638-06-6P				
RL: PREP (Preparation) (manufacture of, by electrochem. reduction of nitro compound)				
RN 20638-06-6 CAPLUS				
CN Phenol, 4,4'-(diphenylmethylen)bis(2-amino- (8CI, 9CI) (CA INDEX NAME)				



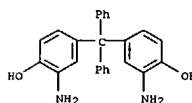
L7 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN

AB The condensation of dicarboxylic acid esters with bisphenols containing an NH2

group ortho to the OH groups gave a series of polybenzoxazoles. The following were prepared using V. V. Korshak's 1966 procedure (diacid and phenol given): isophthalic acid (I), bis(3-amino-4-hydroxyphenyl)methane: sebacic acid (II), 0,0-bis(3-4-hydroxyphenyl)ethylbenzene (III); adipic acid (IV), III; O(CH2CO2H)2, III; I, III; terephthalic acid (VI), III; O(C6H4-CO2H-p)2, III; 2,5-furandicarboxylic acid (VI), III; I, bis(3-amino-4-hydroxyphenyl)diphenylmethane: II, 9,9-bis(3-amino-4-hydroxyphenyl)fluorene (VII); IV, VII; O(CH2CO2H)2, VII; I, VII; V, VII; O(C6H4CO2H-p)2, VII; VI, VII. The reduced viscosities and initial decomposition temps. of the polymers were determined. The polymers based on aromatic diacids are relatively stable to alkaline or acid hydrolysis, acidolysis, or aminolysis, while those containing aliphatic chains are easily degraded by aminolysis, acidolysis, or hydrolysis.

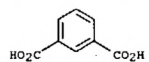
ACCESSION NUMBER: 1969:68812 CAPLUS  
DOCUMENT NUMBER: 70:68812  
TITLE: Effect of the structure of some polybenzoxazoles on their properties  
AUTHOR(S): Korshak, V. V.; Tseitlin, G. M.; Pavlov, A. I.  
CORPORATE SOURCE: Moak. Khim.-Tekhnol. Inst. im. Mendeleeva, Moscow, USSR  
SOURCE: Vysokomolekulyarnye Soedineniya, Seriya A (1969), 11(1), 11-15  
CODEN: VYSAAF; ISSN: 0507-5475  
DOCUMENT TYPE: Journal  
LANGUAGE: Russian  
IT 28572-42-1P  
RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of, ring closure in)  
RN 28572-42-1 CAPLUS  
CN Isophthalic acid, polymer with 4,4'-(diphenylmethylen)bis(2-aminophenol) (8CI) (CA INDEX NAME)

CM 1  
CRN 20638-06-6  
CMF C25 H22 N2 O2



CM 2  
CRN 121-91-5  
CMF C8 H6 O4





=> fil reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

21.24

332.29

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-2.80

-2.80

FILE 'REGISTRY' ENTERED AT 15:27:24 ON 21 SEP 2004

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STRUCTURE FILE UPDATES: 20 SEP 2004 HIGHEST RN 748739-98-2

DICTIONARY FILE UPDATES: 20 SEP 2004 HIGHEST RN 748739-98-2

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

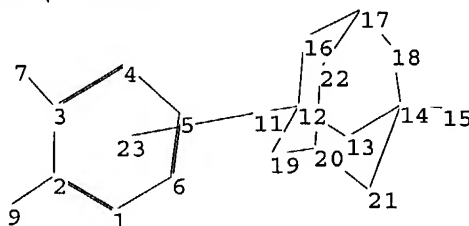
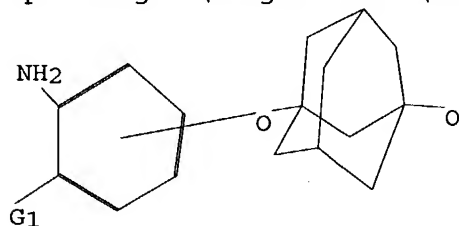
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10609456.str



chain nodes :

7 9 11 15

ring nodes :

1 2 3 4 5 6 12 13 14 16 17 18 19 20 21 22

chain bonds :

2-9 3-7 11-12 14-15

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 12-13 12-16 12-19 13-14 14-18 14-21 16-17  
17-18 17-22 19-20 20-21 20-22

exact/norm bonds :

2-9 3-7 11-12 12-13 12-16 12-19 13-14 14-15 14-18 14-21 16-17 17-18  
17-22 19-20 20-21 20-22

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

G1:O,S

G2:C,O,S,N

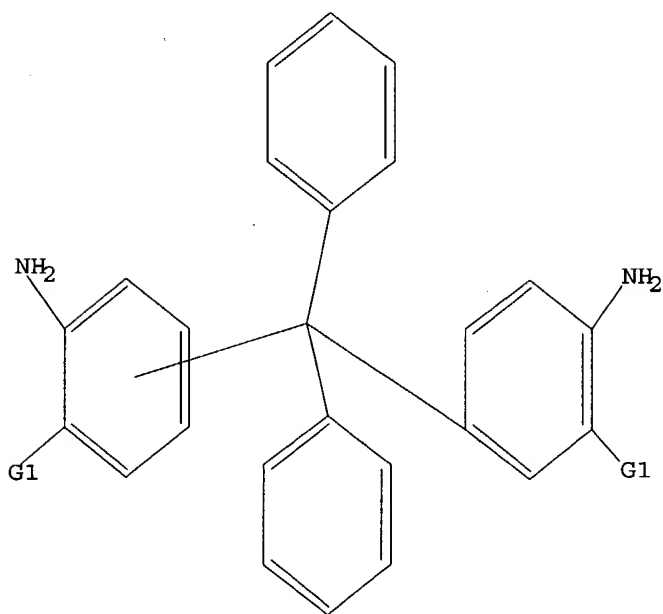
Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 9:CLASS 11:CLASS 12:Atom  
13:Atom 14:Atom 15:CLASS 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom  
22:Atom 23:CLASS

L8 STRUCTURE UPLOADED

=> d query

L8 STR



G1 O,S

Structure attributes must be viewed using STN Express query preparation.

=> s 18

SAMPLE SEARCH INITIATED 15:27:59 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 26 TO ITERATE

100.0% PROCESSED 26 ITERATIONS  
SEARCH TIME: 00.00.01

0 ANSWERS

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 215 TO 825  
PROJECTED ANSWERS: 0 TO 0

L9 0 SEA SSS SAM L8

=> s l8 full

FULL SEARCH INITIATED 15:28:03 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 544 TO ITERATE

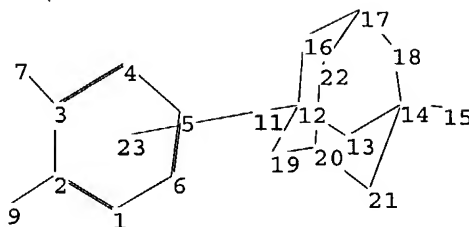
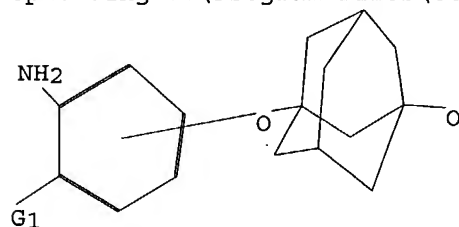
100.0% PROCESSED 544 ITERATIONS  
SEARCH TIME: 00.00.01

0 ANSWERS

L10 0 SEA SSS FUL L8

=>

Uploading C:\Program Files\Stnexp\Queries\10609456.str



chain nodes :

7 9 11 15

ring nodes :

1 2 3 4 5 6 12 13 14 16 17 18 19 20 21 22

chain bonds :

2-9 3-7 11-12 14-15

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 12-13 12-16 12-19 13-14 14-18 14-21 16-17  
17-18 17-22 19-20 20-21 20-22

exact/norm bonds :

2-9 3-7 11-12 12-13 12-16 12-19 13-14 14-15 14-18 14-21 16-17 17-18  
17-22 19-20 20-21 20-22

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

G1:O,S

G2:C,O,S,N

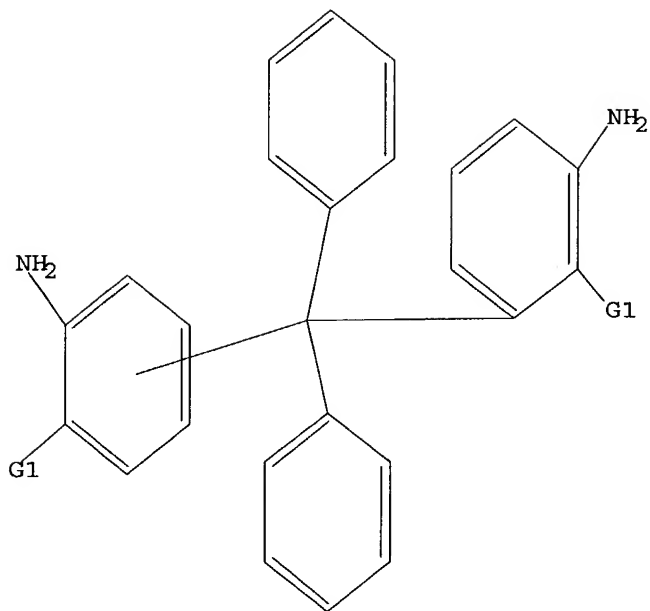
Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 9:CLASS 11:CLASS 12:Atom  
13:Atom 14:Atom 15:CLASS 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom  
22:Atom 23:CLASS

L11 STRUCTURE UPLOADED

=> d query

L11 STR



G1 O,S

Structure attributes must be viewed using STN Express query preparation.

=> s l11

SAMPLE SEARCH INITIATED 15:28:46 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 26 TO ITERATE

100.0% PROCESSED 26 ITERATIONS  
SEARCH TIME: 00.00.01

0 ANSWERS

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 215 TO 825  
PROJECTED ANSWERS: 0 TO 0

L12 0 SEA SSS SAM L11

=> s l11 full

FULL SEARCH INITIATED 15:28:50 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 571 TO ITERATE

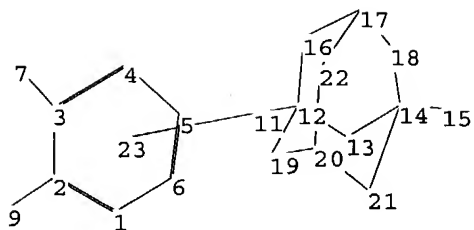
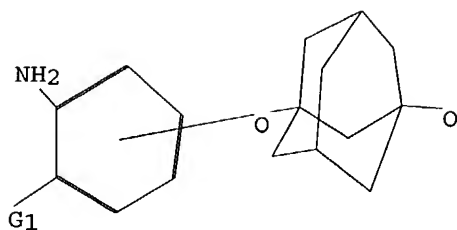
100.0% PROCESSED 571 ITERATIONS  
SEARCH TIME: 00.00.01

0 ANSWERS

L13 0 SEA SSS FUL L11

=>

Uploading C:\Program Files\Stnexp\Queries\10609456.str



chain nodes :

7 9 11 15

ring nodes :

1 2 3 4 5 6 12 13 14 16 17 18 19 20 21 22

chain bonds :

2-9 3-7 11-12 14-15

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 12-13 12-16 12-19 13-14 14-18 14-21 16-17  
17-18 17-22 19-20 20-21 20-22

exact/norm bonds :

2-9 3-7 11-12 12-13 12-16 12-19 13-14 14-15 14-18 14-21 16-17 17-18  
17-22 19-20 20-21 20-22

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

G1:O,S

G2:C,O,S,N

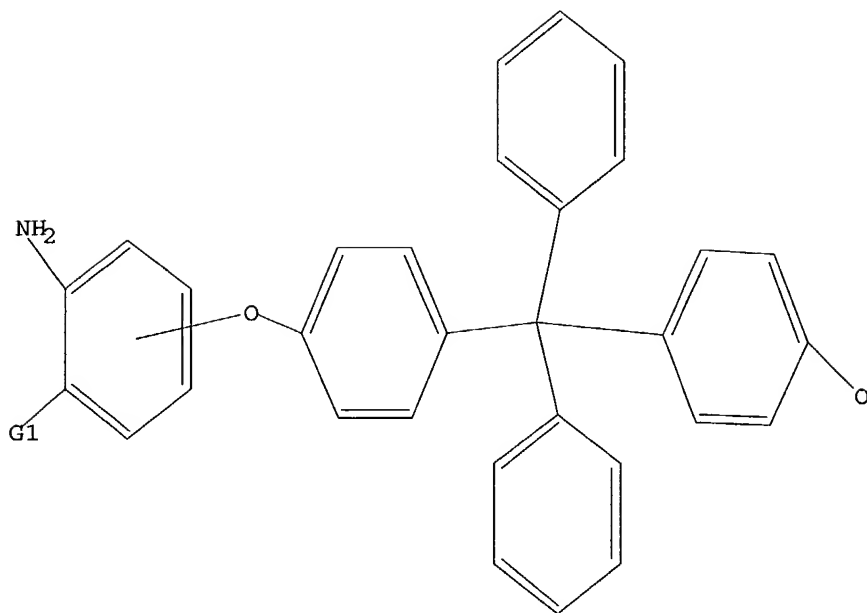
Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 9:CLASS 11:CLASS 12:Atom  
13:Atom 14:Atom 15:CLASS 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom  
22:Atom 23:CLASS

L14 STRUCTURE UPLOADED

=> d query

L14 STR



G1 O,S

Structure attributes must be viewed using STN Express query preparation.

=> s l14

SAMPLE SEARCH INITIATED 15:31:36 FILE 'REGISTRY'  
 SAMPLE SCREEN SEARCH COMPLETED - 84 TO ITERATE

100.0% PROCESSED 84 ITERATIONS 1 ANSWERS  
 SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
 BATCH \*\*COMPLETE\*\*  
 PROJECTED ITERATIONS: 1131 TO 2229  
 PROJECTED ANSWERS: 1 TO 80

L15 1 SEA SSS SAM L14

=> s l14 full

FULL SEARCH INITIATED 15:31:52 FILE 'REGISTRY'  
 FULL SCREEN SEARCH COMPLETED - 1765 TO ITERATE

100.0% PROCESSED 1765 ITERATIONS 6 ANSWERS  
 SEARCH TIME: 00.00.01

L16 6 SEA SSS FUL L14

=> fil caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

468.36

800.65

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-2.80

FILE 'CAPLUS' ENTERED AT 15:31:56 ON 21 SEP 2004  
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
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FILE COVERS 1907 - 21 Sep 2004 VOL 141 ISS 13  
 FILE LAST UPDATED: 20 Sep 2004 (20040920/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l16  
 L17            2 L16  
 => d l17 1-2 abs ibib hitstr



L17 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN  
AB The title materials, which can be easily applied to electronic components and, after cyclization, have good insulating properties and resistance to chems. and heat, are poly(2-hydroxyamides) of specified structure.

Adding  
95 mmol 2,6-naphthalenedicarbonyl chloride to 100 mmol 4,4'-(diphenylmethylene)bis(2-aminophenol) in N-methylpyrrolidone stirred at 10°, stirring for 1 h at 10° and 1 h at 20°, adding 10 mmol 5-norbornene-2,3-dicarboxylic anhydride in 50 mL γ-butyrolactone dropwise at 10°, and stirring at 10° for 1 h and 20° for 1 h gave a polymer (I). Spin-coating of a solution of I on a wafer, heating at 120, 200, and 425° for 1, 2, and 60 min, resp., and determination of dielec constant and chemical

stability are exemplified.

ACCESSION NUMBER: 2004:5185 CAPLUS  
DOCUMENT NUMBER: 140:78187  
TITLE: Polymeric insulation for metalization with aluminum and copper  
INVENTOR(S): Sezi, Recai; Walter, Andreas; Maltenberger, Anna; Lowack, Klaus; Halik, Marcus  
PATENT ASSIGNEE(S): Infineon Technologies Ag, Germany  
SOURCE: Eur. Pat. Appl., 41 pp.  
CODEN: EPXXDW  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1375563	A1	20040102	EP 2003-14160	20030624
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
DE 10228769	A1	20040205	DE 2002-10228769	20020627
CN 1472195	A	20040204	CN 2003-145750	20030627
JP 2004099873	A2	20040402	JP 2003-184081	20030627
US 2004082756	A1	20040429	US 2003-609453	20030627

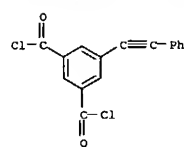
PRIORITY APPLN. INFO.: DE 2002-10228769 A 20020627

IT 640298-36-8D, end-capped with methacrylic acid, cyclized  
640298-38-8D, cyclized 640298-40-4D, end-capped with norbornenedicarboxylic acid, cyclized 640298-45-9D, end-capped with norbornenedicarboxylic anhydride, cyclized  
RI: CPS (Chemical process); PEP (Physical, engineering or chemical process); PRP (Properties); TEM (Technical or engineered material use); PROC (Process); USES (Uses)

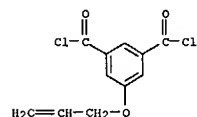
(polymeric insulation for metalization with aluminum and copper)  
RN 640298-36-8 CAPLUS  
CN 1,4-Benzenedicarbonyl dichloride, polymer with 3,3'-[(diphenylmethylene)bis(4,1-phenyleneoxy)]bis[6-aminophenol] (9CI) (CA INDEX NAME)

CM 1  
CRN 640298-35-7  
CMF C37 H30 N2 O4

L17 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



CM 3  
CRN 169203-74-1  
CMF C11 H8 Cl2 O3



CM 4  
CRN 629-11-8  
CMF C6 H14 O2

HO-(CH2)6-OH

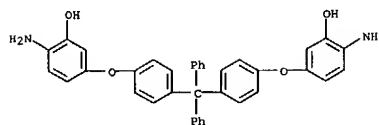
CM 5  
CRN 463-79-6  
CMF C H2 O3



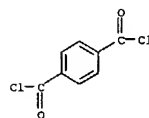
RN 640298-40-4 CAPLUS  
CN 1,3-Benzenedicarbonyl dichloride, 5-(phenylethynyl)-, polymer with 3,3'-[(diphenylmethylene)bis(4,1-phenyleneoxy)]bis[6-aminophenol] and 4,4'-oxybis(benzoyl chloride) (9CI) (CA INDEX NAME)

CM 1  
CRN 640298-35-7

L17 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

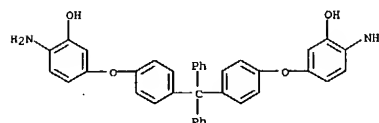


CM 2  
CRN 100-20-9  
CMF C8 H4 Cl2 O2



RN 640298-38-0 CAPLUS  
CN Carbonic acid, polymer with 3,3'-[(diphenylmethylene)bis(4,1-phenyleneoxy)]bis[6-aminophenol], 1,6-hexanediol, 5-(phenylethynyl)-1,3-benzenedicarbonyl dichloride and 5-(2-propenyloxy)-1,3-benzenedicarbonyl dichloride, block (9CI) (CA INDEX NAME)

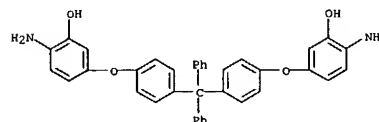
CM 1  
CRN 640298-35-7  
CMF C37 H30 N2 O4



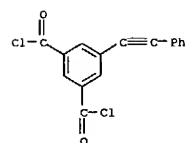
CM 2  
CRN 393543-14-1  
CMF C16 H8 Cl2 O2

L17 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

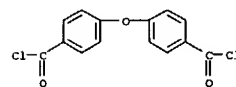
CMF C37 H30 N2 O4



CM 2  
CRN 393543-14-1  
CMF C16 H8 Cl2 O2



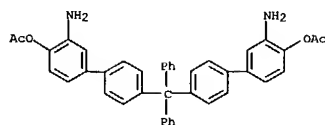
CM 3  
CRN 7158-32-9  
CMF C14 H8 Cl2 O3



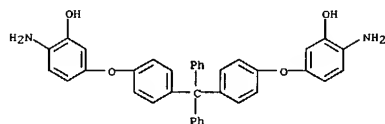
RN 640298-45-9 CAPLUS  
CN Benzoyl chloride, 4,4'-oxybis-, polymer with (diphenylmethylene)bis[3-amino(1,1'-biphenyl)-4',4-diyl] diacetate and 3,3'-[(diphenylmethylene)bis(4,1-phenyleneoxy)]bis[6-aminophenol] (9CI) (CA INDEX NAME)

CM 1  
CRN 640298-44-8  
CMF C41 H34 N2 O4

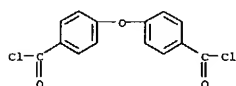
L17 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



CM 2  
CRN 640298-35-7  
CMF C37 H30 N2 O4



CM 3  
CRN 7158-32-9  
CMF C14 H8 C12 O3



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS  
FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE RE

L17 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN

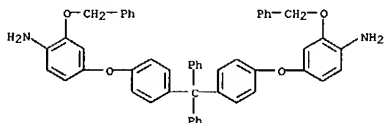
AB The title compds., useful in production of insulating polymers (e.g., polybenzoxazoles, polybenzothiazoles), are prepared by nitro(s)ation of the corresponding phenols and catalytic hydrogenation of the nitro(so) compds. Adding 20 mL isoamyl nitrite dropwise to 57 mmol 4,4'-(diphenylmethylene)bisphenol in 100 mL AcOH at room temperature gave 91% 4,4'-(diphenylmethylene)bis(2-nitrosophenol) (I). Hydrogenation of 50 mmol I in 250 mL THF over 2.00 g 5% Pd/C catalyst at room temperature/2 bar for 24 h gave 94% 4,4'-(diphenylmethylene)bis(2-aminophenol), isolated as the hydrochloride.

ACCESSION NUMBER: 2004:5168 CAPLUS  
DOCUMENT NUMBER: 140:77566  
TITLE: Preparation of bis-2-amino(thio)phenols for use in heterocyclic polymers  
INVENTOR(S): Walter, Andreas; Gnuetzel, Ingo; Maltenberger, Anna; Sezi, Recai; Hartmann, Horst  
PATENT ASSIGNEE(S): Infineon Technologies Ag, Germany  
SOURCE: Eur. Pat. Appl., 17 pp.  
DOCUMENT TYPE: CODEN: EFXXDW  
LANGUAGE: Patent  
FAMILY ACC. NUM. COUNT: 1 German  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1375471	A1	20040102	EP 2003-12042	20030528
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
DE 10228763	A1	20040129	DE 2002-10228763	20020627
JP 2004026831	A2	20040129	JP 2003-180250	20030624
CN 1470501	A	20040128	CN 2003-145282	20030627
US 2004049081	A1	20040311	US 2003-609456	20030627

PRIORITY APPLN. INFO.: DE 2002-10228763 A 20020627  
OTHER SOURCE(S): MARPAT 140:77566  
IT 640289-17-4p  
RL: IMF (Industrial manufacture); PREP (Preparation) (preparation of diaminobisphenols)  
RN 640289-17-4 CAPLUS  
CN Benzenamine, 4,4'-[(diphenylmethylene)bis(4,1-phenyleneoxy)]bis[2-(phenylmethoxy)-, dihydrochloride (9CI) (CA INDEX NAME)]

L17 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



● 2 HCl

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS  
FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE RE

```
=> fil reg
COST IN U.S. DOLLARS          SINCE FILE      TOTAL
                                ENTRY      SESSION
FULL ESTIMATED COST          10.40      811.05

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)  SINCE FILE      TOTAL
                                                ENTRY      SESSION
CA SUBSCRIBER PRICE          -1.40      -4.20
```

FILE 'REGISTRY' ENTERED AT 15:33:21 ON 21 SEP 2004  
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
 PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
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Property values tagged with IC are from the ZIC/VINITI data file  
 provided by InfoChem.

STRUCTURE FILE UPDATES: 20 SEP 2004 HIGHEST RN 748739-98-2  
 DICTIONARY FILE UPDATES: 20 SEP 2004 HIGHEST RN 748739-98-2

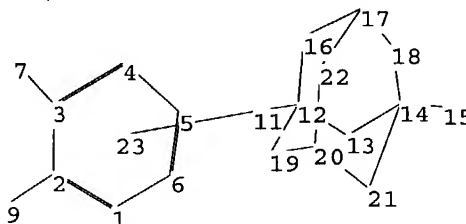
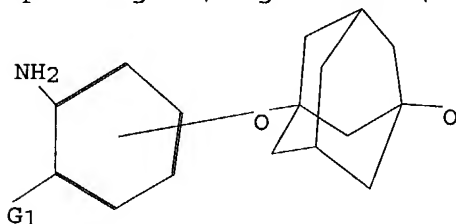
TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when  
 conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more  
 information enter HELP PROP at an arrow prompt in the file or refer  
 to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

```
=>
Uploading C:\Program Files\Stnexp\Queries\10609456.str
```



```
chain nodes :
7 9 11 15
ring nodes :
1 2 3 4 5 6 12 13 14 16 17 18 19 20 21 22
chain bonds :
2-9 3-7 11-12 14-15
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 12-13 12-16 12-19 13-14 14-18 14-21 16-17
17-18 17-22 19-20 20-21 20-22
exact/norm bonds :
2-9 3-7 11-12 12-13 12-16 12-19 13-14 14-15 14-18 14-21 16-17 17-18
17-22 19-20 20-21 20-22
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
```

G1:O,S

G2:C,O,S,N

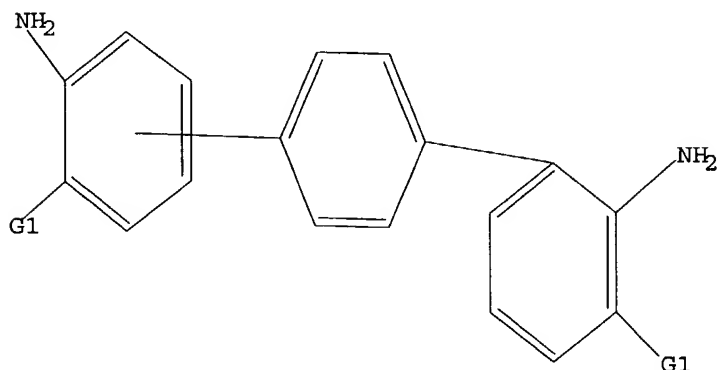
Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 9:CLASS 11:CLASS 12:Atom  
13:Atom 14:Atom 15:CLASS 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom  
22:Atom 23:CLASS

L18 STRUCTURE UPLOADED

=> d query

L18 STR



G1 O,S

Structure attributes must be viewed using STN Express query preparation.

=> s l18

SAMPLE SEARCH INITIATED 15:36:18 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 42 TO ITERATE

100.0% PROCESSED 42 ITERATIONS  
SEARCH TIME: 00.00.01

0 ANSWERS

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 452 TO 1228  
PROJECTED ANSWERS: 0 TO 0

L19 0 SEA SSS SAM L18

=> s l18 full

FULL SEARCH INITIATED 15:36:21 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 788 TO ITERATE

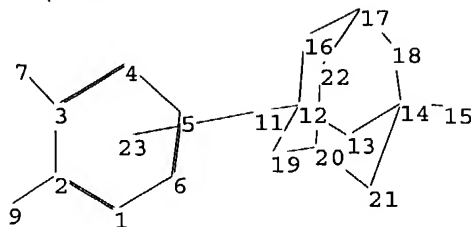
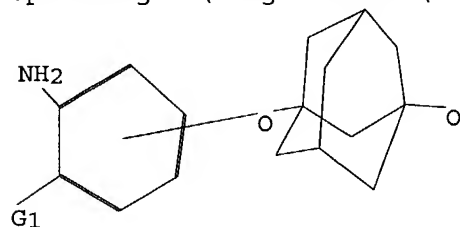
100.0% PROCESSED 788 ITERATIONS  
SEARCH TIME: 00.00.01

0 ANSWERS

L20 0 SEA SSS FUL L18

=>

Uploading C:\Program Files\Stnexp\Queries\10609456.str



chain nodes :

7 9 11 15

ring nodes :

1 2 3 4 5 6 12 13 14 16 17 18 19 20 21 22

chain bonds :

2-9 3-7 11-12 14-15

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 12-13 12-16 12-19 13-14 14-18 14-21 16-17  
17-18 17-22 19-20 20-21 20-22

exact/norm bonds :

2-9 3-7 11-12 12-13 12-16 12-19 13-14 14-15 14-18 14-21 16-17 17-18  
17-22 19-20 20-21 20-22

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

G1:O,S

G2:C,O,S,N

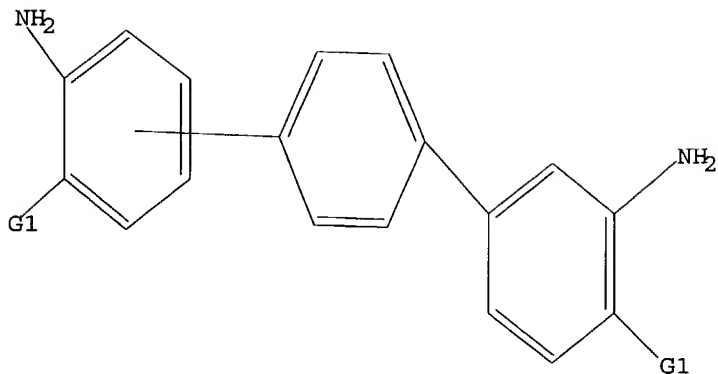
Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 9:CLASS 11:CLASS 12:Atom  
13:Atom 14:Atom 15:CLASS 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom  
22:Atom 23:CLASS

L21 STRUCTURE UPLOADED

=> d query

L21 STR



G1 O,S

Structure attributes must be viewed using STN Express query preparation.

=> s l21

SAMPLE SEARCH INITIATED 15:36:51 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 201 TO ITERATE

100.0% PROCESSED 201 ITERATIONS 0 ANSWERS  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 3170 TO 4870  
PROJECTED ANSWERS: 0 TO 0

L22 0 SEA SSS SAM L21

=> s l21 full

FULL SEARCH INITIATED 15:36:55 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 4250 TO ITERATE

100.0% PROCESSED 4250 ITERATIONS 3 ANSWERS  
SEARCH TIME: 00.00.01

L23 3 SEA SSS FUL L21

=> fil caplus

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	312.52	1123.57
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-4.20

FILE 'CAPLUS' ENTERED AT 15:36:59 ON 21 SEP 2004  
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FILE COVERS 1907 - 21 Sep 2004 VOL 141 ISS 13  
FILE LAST UPDATED: 20 Sep 2004 (20040920/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l23

L24 1 L23

=> d l24 abs ibib hitstr

L24 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN

AB The title materials, which can be easily applied to electronic components and, after cyclization, have good insulating properties and resistance to chems. and heat, are poly(2-hydroxyamides) of specified structure.

Adding

95 mmol 2,6-naphthalenedicarbonyl chloride to 100 mmol 4,4'-(diphenylmethylene)bis(2-aminophenol) in N-methylpyrrolidone stirred at 10°, stirring for 1 h at 10° and 1 h at 20°, adding 10 mmol 5-norbornene-2,3-dicarboxylic anhydride in 50 mL γ-butyrolactone dropwise at 10°, and stirring at 10° for 1 h and 20° for 1 h gave a polymer (I). Spin-coating of a solution of I on a wafer, heating at 120, 200, and 425° for 1, 2, and 60 min, resp., and determination of dielec constant and chemical stability are exemplified.

ACCESSION NUMBER: 2004:5185 CAPLUS  
DOCUMENT NUMBER: 140:78187  
TITLE: Polymeric insulation for metalization with aluminum and copper  
INVENTOR(S): Sezi, Recai; Walter, Andreas; Maltenberger, Anna; Lowack, Klaus; Halik, Marcus  
PATENT ASSIGNEE(S): Infineon Technologies Ag, Germany  
SOURCE: Eur. Pat. Appl., 41 pp.  
CODEN: EPXDXW  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1375563	A1	20040102	EP 2003-14160	20030624
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
DE 10228769	A1	20040205	DE 2002-10228769	20020627
CN 1472195	A	20040204	CN 2003-145750	20030627
JP 2004099873	A2	20040402	JP 2003-184081	20030627
US 2004082756	A1	20040429	US 2003-609453	20030627

PRIORITY APPLN. INFO.:

IT 640298-42-6D, cyclized 640298-43-7D, end-capped with methacrylic acid, cyclized  
RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); PRP (Properties); TEM (Technical or engineered material use); PROC (Process); USES (Uses)

(polymeric insulation for metalization with aluminum and copper)

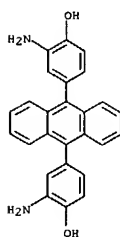
RN 640298-42-6 CAPLUS

CN 2,6-Naphthalenedicarbonyl dichloride, polymer with 4,4'-(9,10-anthracenediyl)bis[2-aminophenol], [1,1'-biphenyl]-4,4'-dicarbonyl dichloride and 4,4'-(diphenylmethylene)bis[2-aminophenol] (9CI) (CA

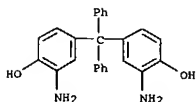
INDEX NAME)

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CRN 640298-41-5  
CMF C26 H20 N2 O2

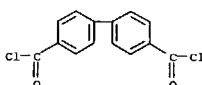
L24 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



CM 2  
CRN 20638-06-6  
CMF C25 H22 N2 O2

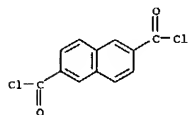


CM 3  
CRN 2351-37-3  
CMF C14 H8 Cl2 O2



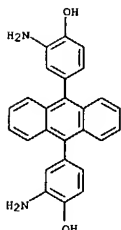
CM 4  
CRN 2351-36-2  
CMF C12 H6 Cl2 O2

L24 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



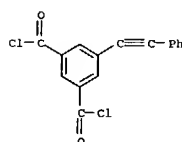
RN 640298-43-7 CAPLUS  
CN 2,6-Naphthalenedicarbonyl dichloride, polymer with 4,4'-(9,10-anthracenediyl)bis[2-aminophenol], 4,4'-diamino[1,1'-biphenyl]-3,3'-diol and 5-(phenylethynyl)-1,3-benzenedicarbonyl dichloride (9CI) (CA INDEX NAME)

CM 1  
CRN 640298-41-5  
CMF C26 H20 N2 O2

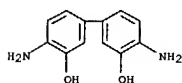


CM 2  
CRN 393543-14-1  
CMF C16 H8 Cl2 O2

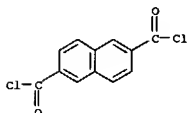
L24 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



CM 3  
CRN 2373-98-0  
CMF C12 H12 N2 O2



CM 4  
CRN 2351-36-2  
CMF C12 H6 Cl2 O2



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE  
FORMAT



=> fil reg		
COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	5.20	1128.77
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.70	-4.90

FILE 'REGISTRY' ENTERED AT 15:37:36 ON 21 SEP 2004  
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STRUCTURE FILE UPDATES: 20 SEP 2004 HIGHEST RN 748739-98-2  
 DICTIONARY FILE UPDATES: 20 SEP 2004 HIGHEST RN 748739-98-2

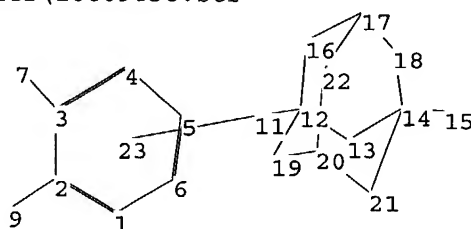
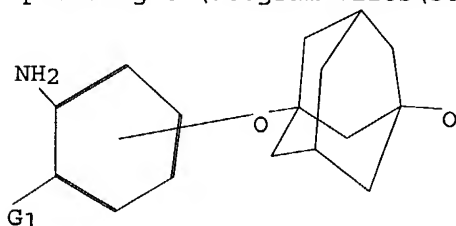
TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>  
 Uploading C:\Program Files\Stnexp\Queries\10609456.str



chain nodes :  
 7 9 11 15  
 ring nodes :  
 1 2 3 4 5 6 12 13 14 16 17 18 19 20 21 22  
 chain bonds :  
 2-9 3-7 11-12 14-15  
 ring bonds :  
 1-2 1-6 2-3 3-4 4-5 5-6 12-13 12-16 12-19 13-14 14-18 14-21 16-17  
 17-18 17-22 19-20 20-21 20-22  
 exact/norm bonds :  
 2-9 3-7 11-12 12-13 12-16 12-19 13-14 14-15 14-18 14-21 16-17 17-18  
 17-22 19-20 20-21 20-22  
 normalized bonds :  
 1-2 1-6 2-3 3-4 4-5 5-6

G1:O,S

G2:C,O,S,N

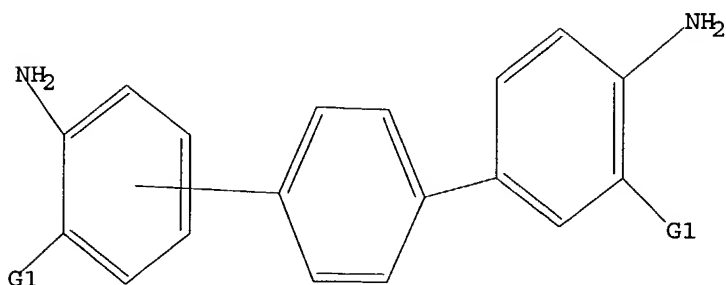
Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 9:CLASS 11:CLASS 12:Atom  
13:Atom 14:Atom 15:CLASS 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom  
22:Atom 23:CLASS

L25 STRUCTURE UPLOADED

=> d query

L25 STR



G1 O,S

Structure attributes must be viewed using STN Express query preparation.

=> s l25

SAMPLE SEARCH INITIATED 15:38:10 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 245 TO ITERATE

100.0% PROCESSED 245 ITERATIONS  
SEARCH TIME: 00.00.01

0 ANSWERS

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 3961 TO 5839  
PROJECTED ANSWERS: 0 TO 0

L26 0 SEA SSS SAM L25

=> s l25 full

FULL SEARCH INITIATED 15:38:14 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 6167 TO ITERATE

100.0% PROCESSED 6167 ITERATIONS  
SEARCH TIME: 00.00.01

5 ANSWERS

L27 5 SEA SSS FUL L25

=> fil caplus		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	155.42	1284.19
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-4.90

FILE 'CAPLUS' ENTERED AT 15:38:18 ON 21 SEP 2004  
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FILE COVERS 1907 - 21 Sep 2004 VOL 141 ISS 13  
 FILE LAST UPDATED: 20 Sep 2004 (20040920/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l27  
 L28 2 L27  
 => d l28 1-2 abs ibib hitstr

L28 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS ON STN  
AB Rigid-rod macromonomers having a polyarom. backbone, solubilizing side groups, and reactive end groups are prepared and chemical incorporated into polymer systems to provide strong, stiffened polymers. Thus, stirring 6.94 mmol 2,5-dichloro-4'-methylbenzophenone and 1.88 mmol Me 3-chlorobenzoate with bis(triphenylphosphine)nickel(II) chloride 0.77, PPh3 1.53, NaI 1.17, and activated Zn powder 15.3 mmol in N-methylpyrrolidinone at 50° for 18 h gave a macromonomer with weight-average mol. weight 14,000 and polydispersity 1.4.  
ACCESSION NUMBER: 1993:650764 CAPLUS  
DOCUMENT NUMBER: 119:250764  
TITLE: Macromonomers having reactive end groups  
INVENTOR(S): Gagne, Robert R.; Marrocco, Matthew Louis, III; Trimmer, Mark Steven; Hendricks, Neil H.  
PATENT ASSIGNEE(S): Maxdem Inc., USA  
SOURCE: PCT Int. Appl., 100 pp.  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

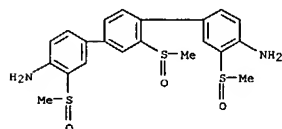
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9304099	A1	19930304	WO 1992-US5889	19920714
W: CA, JP, KR RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, MC, NL, SE				
US 5373056	A	19941213	US 1991-746917	19910819
CA 2115143	C	20021119	CA 1992-2115143	19920214
EP 599886	A1	19940608	EP 1992-916566	19920714
EP 599886	B1	20010321		
R: DE, FR, GB, IT, NL				
JP 06510315	T2	19941117	JP 1993-504293	19920714
JP 3245163	B2	20020107		
US 5670564	A	19970923	US 1995-457092	19950601
US 5824744	A	19981020	US 1995-457268	19950601
US 5827927	A	19981027	US 1996-645914	19960514
US 5973075	A	19991026	US 1998-93746	19980608
PRIORITY APPLN. INFO.:			US 1991-746917	A 19910819
			WO 1992-US5889	W 19920714
			US 1994-331144	B3 19941027
			US 1995-457268	A3 19950601

IT 151172-64-4P  
RL: PREP (Preparation)  
(macromonomer, preparation and polymerization of, for manufacture of stiffened thermoplastics)  
RN 151172-64-4 CAPLUS  
CN Poly([1,1':4',1''-terphenyl]-2',5'-diyl),  $\alpha,\omega$ -bis(4-amino-5-methoxy-2-methylphenyl)- (9CI) (CA INDEX NAME)

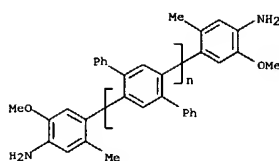
L28 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2004 ACS ON STN  
AB The title varnishes with viscosity (A) < 0.1 P contain phenylene, biphenyl or tri-Ph tetracarboxylic dianhydrides and aromatic diamines H2NXYNH2, H2NXY1NH/2, N2NYY1Y2NH2, H2NXY1NH2 [X = O, SO2, C(CF3)2; Y = C6H4-nRn; Y1 = C6H4-nR1n R, R1 = NO2, CN, methylsulfinyl; n = 1-4]. Thus, a 42% varnish (A 0.05 P) of 1:1 2-nitro-1,4-diaminobenzene and 1-trifluoromethyl-2,3,5,6-benzene tetracarboxylic dianhydride gave a film with heat resistance (3% loss over 100 min) 480°, tensile strength 33.0 kg/mm2, dielec. constant 2.9 and smoothness (1- $\Delta$ H/H =  $\Delta$ H, H = the unevenness of the film and substrate (e.g. printed circuit), resp.) 0.76.  
ACCESSION NUMBER: 1992:513668 CAPLUS  
DOCUMENT NUMBER: 117:113668  
TITLE: Low viscosity aromatic polyimide varnishes for smooth electric insulators  
INVENTOR(S): Shimano, Hisae; Okabe, Yoshiaki; Miwa, Takao; Numata, Shunichi; Ikeda, Takao  
PATENT ASSIGNEE(S): Hitachi Seisakusho K. K., Japan; Hitachi Kasei Kogyo K. K.  
SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04077587	A2	19920311	JP 1990-186380	19900713
PRIORITY APPLN. INFO.:			JP 1990-186380	19900713

OTHER SOURCE(S): MARPAT 117:113668  
IT 143133-07-7 143133-16-8 143201-82-5  
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
(low viscosity varnishes, for smooth elec. insulators)  
RN 143133-07-7 CAPLUS  
CN 1H,3H-Benzo[1,2-c:4,5-c']difuran-1,3,5,7-tetrone, 4-(trifluoromethyl)-, polymer with 2',3,3''-tris(methylsulfinyl)[1,1':4',1''-terphenyl]-4,4''-diamine (9CI) (CA INDEX NAME)  
CM 1  
CRN 143133-06-6  
CMF C21 H22 N2 O3 S3

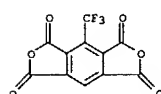


L28 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS ON STN (Continued)

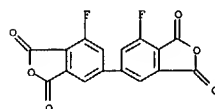


L28 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2004 ACS ON STN (Continued)

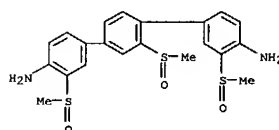
CM 2  
CRN 114349-13-2  
CMF C11 H F3 O6



RN 143133-16-8 CAPLUS  
CN [5,5'-Bis(benzofuran)-1,1',3,3'-tetrone, 7,7'-difluoro-, polymer with 2',3,3''-tris(methylsulfinyl)[1,1':4',1''-terphenyl]-4,4''-diamine (9CI) (CA INDEX NAME)  
CM 1  
CRN 143133-13-5  
CMF C16 H4 F2 O6



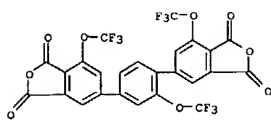
CM 2  
CRN 143133-06-6  
CMF C21 H22 N2 O3 S3



RN 143201-82-5 CAPLUS  
CN 1,3-Isobenzofurandione, 5,5'-[2-(trifluoromethoxy)-1,4-phenylene]bis[7-(trifluoromethoxy)-, polymer with 2',3,3''-tris(methylsulfinyl)[1,1':4',1''-terphenyl]-4,4''-diamine (9CI) (CA INDEX NAME)

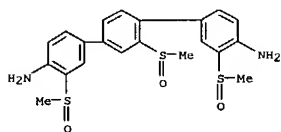
CM 1

CRN 143133-21-5  
 CMF C25 H7 F9 O9



CM 2

CRN 143133-06-6  
 CMF C21 H22 N2 O3 S3



=> fil reg

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
9.96	1294.15

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-1.40	-6.30

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FILE 'REGISTRY' ENTERED AT 15:39:00 ON 21 SEP 2004

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STRUCTURE FILE UPDATES: 20 SEP 2004 HIGHEST RN 748739-98-2

DICTIONARY FILE UPDATES: 20 SEP 2004 HIGHEST RN 748739-98-2

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

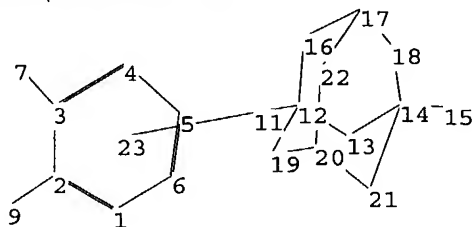
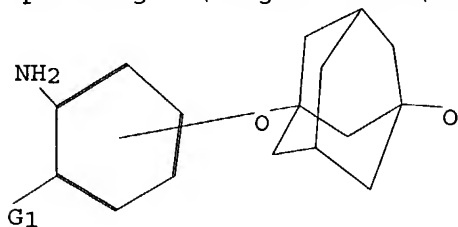
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10609456.str



chain nodes :

7 9 11 15

ring nodes :

1 2 3 4 5 6 12 13 14 16 17 18 19 20 21 22

chain bonds :

2-9 3-7 11-12 14-15

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 12-13 12-16 12-19 13-14 14-18 14-21 16-17  
17-18 17-22 19-20 20-21 20-22

exact/norm bonds :

2-9 3-7 11-12 12-13 12-16 12-19 13-14 14-15 14-18 14-21 16-17 17-18  
17-22 19-20 20-21 20-22

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

G1:O,S

G2:C,O,S,N

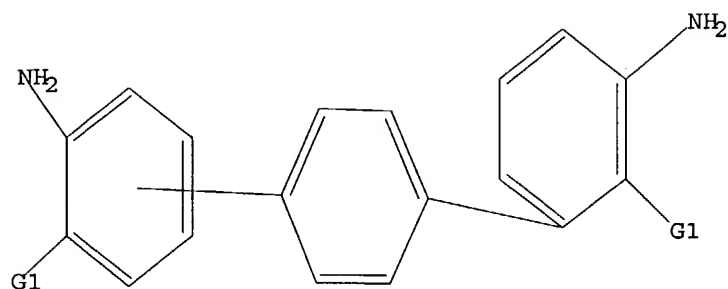
Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 9:CLASS 11:CLASS 12:Atom  
13:Atom 14:Atom 15:CLASS 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom  
22:Atom 23:CLASS

L29 STRUCTURE UPLOADED

=> d query

L29 STR



G1 O,S

Structure attributes must be viewed using STN Express query preparation.

=> s l29

SAMPLE SEARCH INITIATED 15:39:38 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 53 TO ITERATE

100.0% PROCESSED 53 ITERATIONS 0 ANSWERS  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 624 TO 1496  
PROJECTED ANSWERS: 0 TO 0

L30 0 SEA SSS SAM L29

=> s l29 full

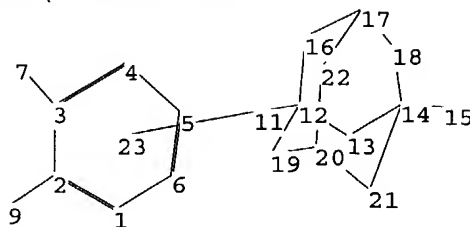
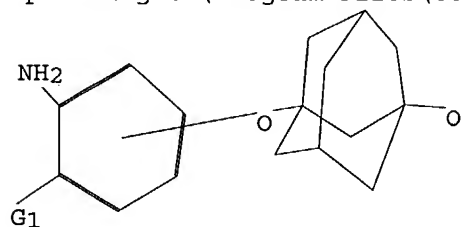
FULL SEARCH INITIATED 15:39:42 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 1230 TO ITERATE

100.0% PROCESSED 1230 ITERATIONS 0 ANSWERS  
SEARCH TIME: 00.00.01

L31 0 SEA SSS FUL L29

=>

Uploading C:\Program Files\Stnexp\Queries\10609456.str



chain nodes :

7 9 11 15

ring nodes :

1 2 3 4 5 6 12 13 14 16 17 18 19 20 21 22

chain bonds :

2-9 3-7 11-12 14-15

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 12-13 12-16 12-19 13-14 14-18 14-21 16-17  
17-18 17-22 19-20 20-21 20-22

exact/norm bonds :

2-9 3-7 11-12 12-13 12-16 12-19 13-14 14-15 14-18 14-21 16-17 17-18  
17-22 19-20 20-21 20-22

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

G1:O,S

G2:C,O,S,N

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 9:CLASS 11:CLASS 12:Atom  
13:Atom 14:Atom 15:CLASS 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom  
22:Atom 23:CLASS

L32 STRUCTURE UPLOADED

=> d queyr

L32 HAS NO ANSWERS

'QUEYR ' IS NOT A VALID STRUCTURE FORMAT KEYWORD

Structure Formats

SIA ----- Structure Image, Attributes, and map table if it contains  
data. (Default)

SIM ----- Structure Image.

SAT ----- Structure ATtributes and map table if it contains data.

SCT ----- Structure Connection Table and map table if it contains  
data.

SDA ----- All Structure DATA (image, attributes, connection table and  
map table if it contains data).

NOS ----- NO Structure data.

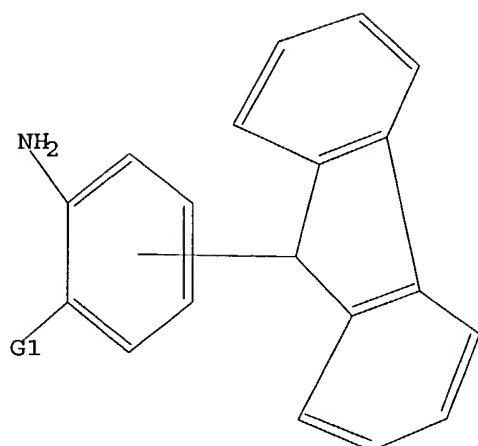
ENTER STRUCTURE FORMAT (SIM), NOS:nos

L32 STR

=> d query



STR



G1 O, S

Structure attributes must be viewed using STN Express query preparation.

=> s 132

SAMPLE SEARCH INITIATED 15:43:13 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 4686 TO ITERATE

```

21.3% PROCESSED      1000 ITERATIONS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

```

```

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH    **COMPLETE**
PROJECTED ITERATIONS:   89616 TO    97824
PROJECTED ANSWERS:      4 TO      370

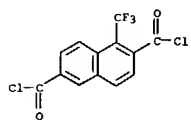
```

L33                    2 SEA SSS SAM L32

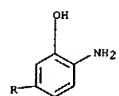
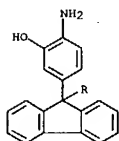
=> d scan

L33 2 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
 IN 2,6-Naphthalenedicarbonyl dichloride, 1-[(trifluoromethyl)-, polymer with  
 3,3'-(9H-fluoren-9-ylidene)bis[6-aminophenol] and  
 4,4'-[2,2,2-trifluoro-1-  
 (trifluoromethyl)ethyldiene]bis(benzoyl chloride) (9CI)  
 MF (C25 H20 N2 O2 . C17 H8 Cl2 F6 O2 . C13 H5 Cl2 F3 O2)x  
 CI PMS

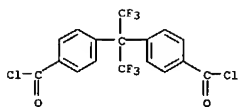
CM 1



CM 2



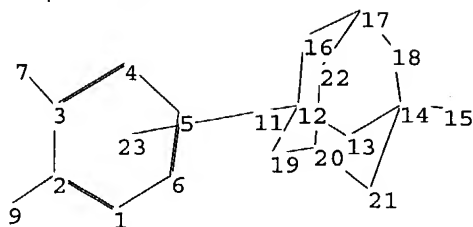
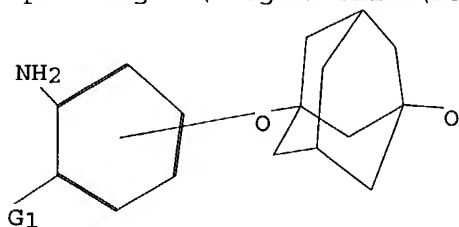
CM 3



L33 2 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN (Continued)  
 \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1): 0

=>  
 Uploading C:\Program Files\Stnexp\Queries\10609456.str



chain nodes :  
 7 9 11 15  
 ring nodes :  
 1 2 3 4 5 6 12 13 14 16 17 18 19 20 21 22  
 chain bonds :  
 2-9 3-7 11-12 14-15  
 ring bonds :  
 1-2 1-6 2-3 3-4 4-5 5-6 12-13 12-16 12-19 13-14 14-18 14-21 16-17  
 17-18 17-22 19-20 20-21 20-22  
 exact/norm bonds :  
 2-9 3-7 11-12 12-13 12-16 12-19 13-14 14-15 14-18 14-21 16-17 17-18  
 17-22 19-20 20-21 20-22  
 normalized bonds :  
 1-2 1-6 2-3 3-4 4-5 5-6

G1:O,S

G2:C,O,S,N

Match level :  
 1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 9:CLASS 11:CLASS 12:Atom  
 13:Atom 14:Atom 15:CLASS 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom  
 22:Atom 23:CLASS

L34 STRUCTURE UPLOADED

=> d query

L34 HAS NO ANSWERS

'QUERY' IS NOT A VALID STRUCTURE FORMAT KEYWORD

Structure Formats

SIA ----- Structure Image, Attributes, and map table if it contains data. (Default)

SIM ----- Structure Image.

SAT ----- Structure ATtributes and map table if it contains data.

SCT ----- Structure Connection Table and map table if it contains data.

SDA ----- All Structure Data (image, attributes, connection table and map table if it contains data).

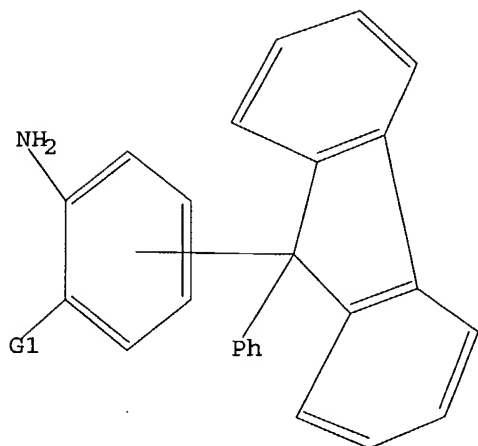
NOS ----- NO Structure data.

ENTER STRUCTURE FORMAT (SIM), NOS:nos

L34 STR

=> d query  
L34

STR



G1 O,S

Structure attributes must be viewed using STN Express query preparation.

=> s l34

SAMPLE SEARCH INITIATED 15:45:01 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 713 TO ITERATE

100.0% PROCESSED 713 ITERATIONS  
SEARCH TIME: 00.00.01

0 ANSWERS

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 12659 TO 15861  
PROJECTED ANSWERS: 0 TO 0

L35 0 SEA SSS SAM L34

=> s l34 full

FULL SEARCH INITIATED 15:45:06 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 14838 TO ITERATE

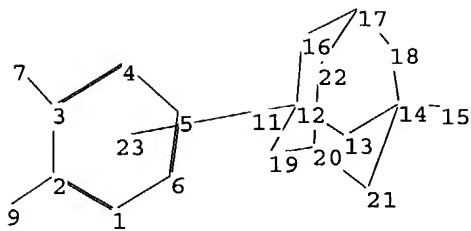
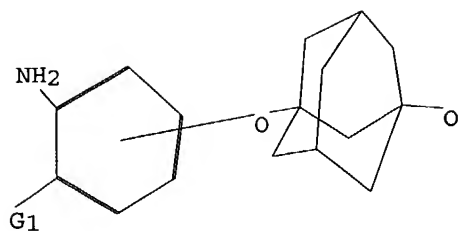
100.0% PROCESSED 14838 ITERATIONS  
SEARCH TIME: 00.00.01

0 ANSWERS

L36 0 SEA SSS FUL L34

=>

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chain nodes :

7 9 11 15

ring nodes :

1 2 3 4 5 6 12 13 14 16 17 18 19 20 21 22

chain bonds :

2-9 3-7 11-12 14-15

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 12-13 12-16 12-19 13-14 14-18 14-21 16-17

17-18 17-22 19-20 20-21 20-22

exact/norm bonds :

2-9 3-7 11-12 12-13 12-16 12-19 13-14 14-15 14-18 14-21 16-17 17-18

17-22 19-20 20-21 20-22

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

G1:O,S

G2:C,O,S,N

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 9:CLASS 11:CLASS 12:Atom

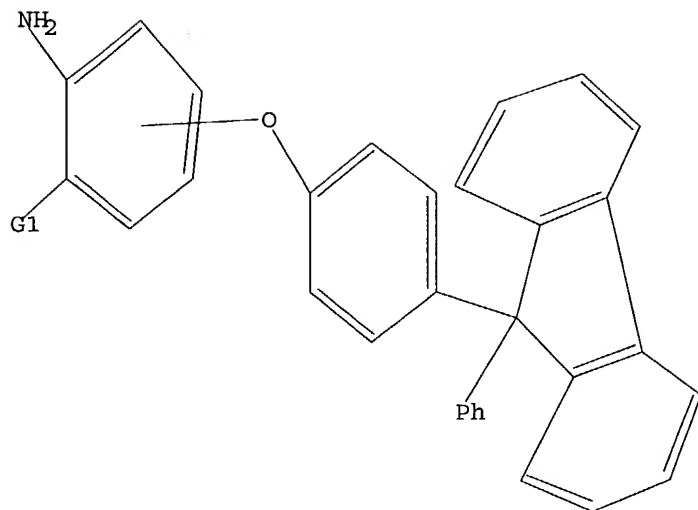
13:Atom 14:Atom 15:CLASS 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom

22:Atom 23:CLASS

L37 STRUCTURE UPLOADED

=> d query

L37 STR



G1 O,S

Structure attributes must be viewed using STN Express query preparation.

=> s l37

SAMPLE SEARCH INITIATED 15:47:29 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 21 TO ITERATE

100.0% PROCESSED 21 ITERATIONS 0 ANSWERS  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 146 TO 694  
PROJECTED ANSWERS: 0 TO 0

L38 0 SEA SSS SAM L37

=> s l37 full

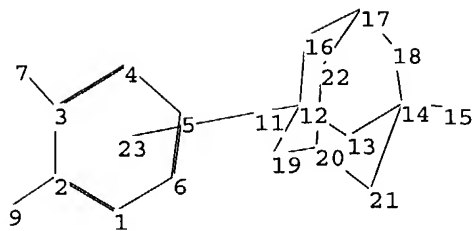
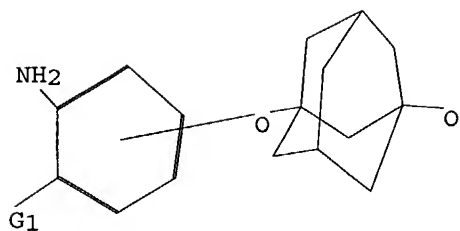
FULL SEARCH INITIATED 15:47:33 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 268 TO ITERATE

100.0% PROCESSED 268 ITERATIONS 0 ANSWERS  
SEARCH TIME: 00.00.01

L39 0 SEA SSS FUL L37

=>

Uploading C:\Program Files\Stnexp\Queries\10609456.str



chain nodes :

7 9 11 15

ring nodes :

1 2 3 4 5 6 12 13 14 16 17 18 19 20 21 22

chain bonds :

2-9 3-7 11-12 14-15

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 12-13 12-16 12-19 13-14 14-18 14-21 16-17

17-18 17-22 19-20 20-21 20-22

exact/norm bonds :

2-9 3-7 11-12 12-13 12-16 12-19 13-14 14-15 14-18 14-21 16-17 17-18

17-22 19-20 20-21 20-22

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

G1:O,S

G2:C,O,S,N

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 9:CLASS 11:CLASS 12:Atom

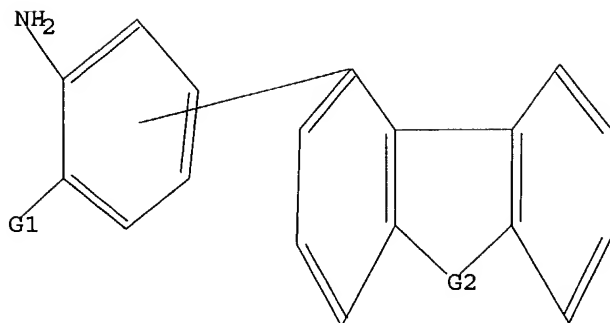
13:Atom 14:Atom 15:CLASS 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom

22:Atom 23:CLASS

L40 STRUCTURE UPLOADED

=> d query

L40 STR



G1 O,S

G2 C,O,S,N

Structure attributes must be viewed using STN Express query preparation.

=> s l40

SAMPLE SEARCH INITIATED 15:51:24 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 5048 TO ITERATE

19.8% PROCESSED 1000 ITERATIONS  
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
SEARCH TIME: 00.00.01

0 ANSWERS

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 96700 TO 105220  
PROJECTED ANSWERS: 0 TO 0

L41 0 SEA SSS SAM L40

=> s l40 full

FULL SEARCH INITIATED 15:51:31 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 102567 TO ITERATE

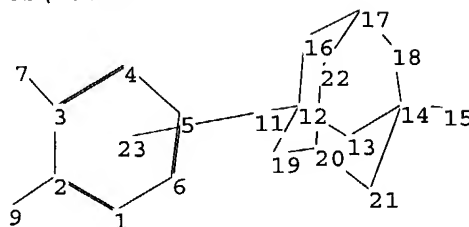
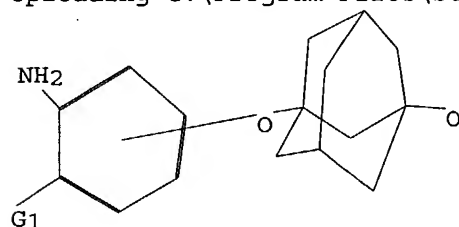
100.0% PROCESSED 102567 ITERATIONS  
SEARCH TIME: 00.00.02

0 ANSWERS

L42 0 SEA SSS FUL L40

=>

Uploading C:\Program Files\Stnexp\Queries\10609456.str



chain nodes :



```

7 9 11 15
ring nodes :
1 2 3 4 5 6 12 13 14 16 17 18 19 20 21 22
chain bonds :
2-9 3-7 11-12 14-15
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 12-13 12-16 12-19 13-14 14-18 14-21 16-17
17-18 17-22 19-20 20-21 20-22
exact/norm bonds :
2-9 3-7 11-12 12-13 12-16 12-19 13-14 14-15 14-18 14-21 16-17 17-18
17-22 19-20 20-21 20-22
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6

```

G1:O,S

G2:C,O,S,N

Match level :

```

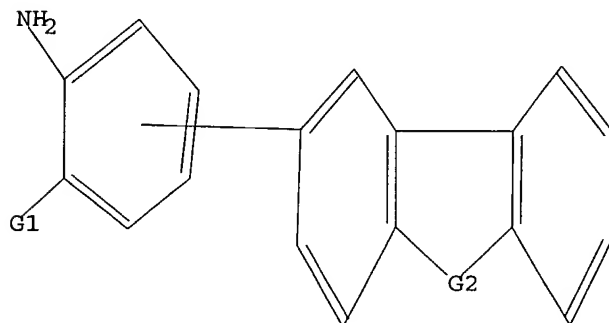
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 9:CLASS 11:CLASS 12:Atom
13:Atom 14:Atom 15:CLASS 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom
22:Atom 23:CLASS

```

L43 STRUCTURE UPLOADED

=> d query

L43 STR



G1 O,S

G2 C,O,S,N

Structure attributes must be viewed using STN Express query preparation.

=> s l43

SAMPLE SEARCH INITIATED 15:52:22 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 5048 TO ITERATE

19.8% PROCESSED 1000 ITERATIONS  
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 96700 TO 105220  
PROJECTED ANSWERS: 0 TO 0

L44 0 SEA SSS SAM L43

=> s l43  
SAMPLE SEARCH INITIATED 15:52:26 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 5048 TO ITERATE

19.8% PROCESSED 1000 ITERATIONS 0 ANSWERS  
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 96700 TO 105220  
PROJECTED ANSWERS: 0 TO 0

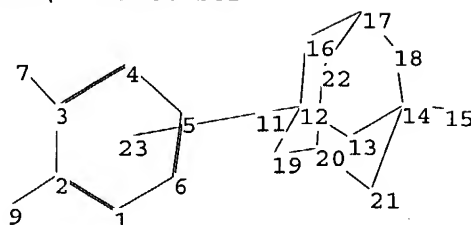
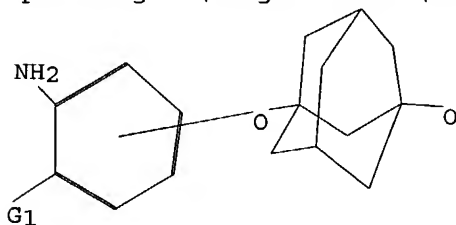
L45 0 SEA SSS SAM L43

=> s l43 full  
FULL SEARCH INITIATED 15:52:30 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 102567 TO ITERATE

100.0% PROCESSED 102567 ITERATIONS 0 ANSWERS  
SEARCH TIME: 00.00.01

L46 0 SEA SSS FUL L43

=>  
Uploading C:\Program Files\Stnexp\Queries\10609456.str



chain nodes :  
7 9 11 15  
ring nodes :  
1 2 3 4 5 6 12 13 14 16 17 18 19 20 21 22  
chain bonds :  
2-9 3-7 11-12 14-15  
ring bonds :  
1-2 1-6 2-3 3-4 4-5 5-6 12-13 12-16 12-19 13-14 14-18 14-21 16-17  
17-18 17-22 19-20 20-21 20-22  
exact/norm bonds :  
2-9 3-7 11-12 12-13 12-16 12-19 13-14 14-15 14-18 14-21 16-17 17-18  
17-22 19-20 20-21 20-22  
normalized bonds :  
1-2 1-6 2-3 3-4 4-5 5-6

G1:O,S

G2:C,O,S,N

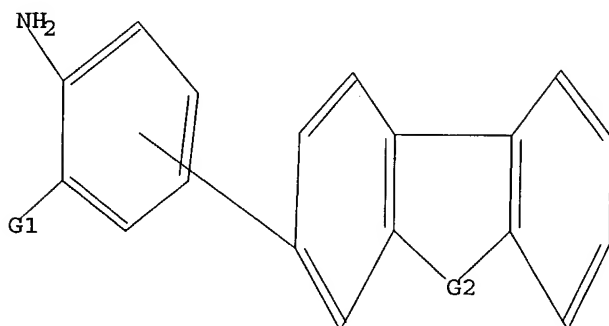
Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 9:CLASS 11:CLASS 12:Atom  
13:Atom 14:Atom 15:CLASS 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom  
22:Atom 23:CLASS

L47 STRUCTURE UPLOADED

=> d query

L47 STR



G1 O,S

G2 C,O,S,N

Structure attributes must be viewed using STN Express query preparation.

=> s l47

SAMPLE SEARCH INITIATED 15:53:11 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 5048 TO ITERATE

19.8% PROCESSED 1000 ITERATIONS  
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
SEARCH TIME: 00.00.01

0 ANSWERS

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 96700 TO 105220  
PROJECTED ANSWERS: 0 TO 0

L48 0 SEA SSS SAM L47

=> s l47 full

FULL SEARCH INITIATED 15:53:19 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 102567 TO ITERATE

100.0% PROCESSED 102567 ITERATIONS  
SEARCH TIME: 00.00.01

1 ANSWERS

L49 1 SEA SSS FUL L47

=> fil caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

940.08

2234.23

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

0.00

-6.30

FILE 'CAPLUS' ENTERED AT 15:53:25 ON 21 SEP 2004

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PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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FILE COVERS 1907 - 21 Sep 2004 VOL 141 ISS 13

FILE LAST UPDATED: 20 Sep 2004 (20040920/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l49

L50 2 L49

=> d l50 1-2 abs ibib hitstr

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB The title compds. I [ring C represents a benzene or cyclohexene ring; X and Y are the same or different and each represents carbonyl or methylene;

R1 represents lower alkyl or aralkyl; R2 represents hydrogen, optionally substituted lower alkyl, lower alkenyl, or optionally substituted

aralkyl; and R3, R4, R5, R6, R7, R8, R9, R10 and R11 are the same or different and each represents hydrogen, optionally substituted lower alkyl, optionally substituted lower alkenyl, halogeno, nitro, optionally substituted lower alkanoyl, etc.] are prepared The title compound II.HCl at 10 mg/kg/day

s.c. for 5 days increased the production of thrombocytes in mice by 210%.

ACCESSION NUMBER: 1998:175926 CAPLUS

DOCUMENT NUMBER: 128:244044

TITLE: Preparation of pyrrolocarbazole derivatives for the treatment of thrombopenia

INVENTOR(S): Ino, Yoji; Kanai, Fumihiko; Murakami, Satoru; Murakata, Chikara; Akama, Tsutomu; Shiotsu, Yukimasa;

Yamashita, Kinya; Akinaga, Shiro; Tamaoki, Tatsuya Kyowa Hakko Kogyo Co., Ltd., Japan

PATENT ASSIGNEE(S): PCT Int. Appl., 193 pp.

SOURCE: CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9809967	A1	19980312	WO 1997-JP3153	19970908
W: AU, BG, BR, CA, CN, CZ, HU, JP, KR, MX, NO, NZ, PL, RO, SG, SI, SK, UA, US, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9741361	A1	19980326	AU 1997-41361	19970908
PRIORITY APPLN. INFO.:			JP 1996-237556	19960909
			WO 1997-JP3153	19970908

OTHER SOURCE(S): MARPAT 128:244044

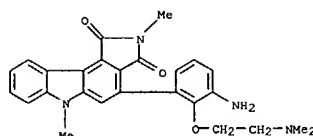
IT 183125-45-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of pyrrolocarbazole derivs. for the treatment of thrombopenia)

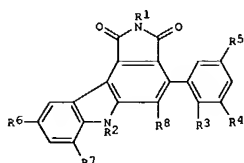
RN 183125-45-3 CAPLUS

CN Pyrrolo[3,4-c]carbazole-1,3(2H,6H)-dione, 4-[3-amino-2-[2-(dimethylamino)ethoxy]phenyl]-2,6-dimethyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT



AB The title compds. I [R1 represents lower alkyl or aralkyl; R2 represents hydrogen, optionally substituted lower alkyl, lower alkenyl or optionally substituted aralkyl; R3, R4, R5, R6 and R7 are the same or different and each represents hydrogen, halogeno, nitro, optionally substituted lower alkanoyl, etc.; and R8 represents hydrogen or R8R3 = CONH2; R12 = H, etc.; provided that R2, R3, R4, R5, R6, R7 and R8 do not represent hydrogen at the same time when R1 is benzyl] are prepared I [R1 = R2 = methyl; R3 = O(CH2)2NMe2; R4 = R6 = R7 = R8 = H; R5 = Br] at 10 mg/Kg s. c. increased the production of thrombocytes in mice by 295%.

ACCESSION NUMBER: 1996:674427 CAPLUS

DOCUMENT NUMBER: 125:300982

TITLE: Preparation of pyrrolocarbazole derivatives for the treatment of thrombocytopenia

INVENTOR(S): Ikuina, Yoji; Murakata, Chikara; Saitoh, Yutaka; Shiotsu, Yukimasa; Iida, Takako; Tamaoki, Tatsuya;

Yamashita, Kinya; Akinaga, Shiro Kyowa Hakko Kogyo Co., Ltd., Japan

PATENT ASSIGNEE(S): PCT Int. Appl., 138 pp.

SOURCE: CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9628447	A1	19960919	WO 1996-JP557	19960307
W: AU, CA, CN, HU, JP, KR, NO, NZ, US				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2189760	AA	19960919	CA 1996-2189760	19960307
AU 9648894	A1	19961002	AU 1996-48894	19960307
EP 768311	A1	19970416	EP 1996-905022	19960307
EP 768311	B1	20030806		
R: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
AT 246686	E	20030815	AT 1996-905022	19960307
US 5728709	A	19980317	US 1996-737194	19961108
PRIORITY APPLN. INFO.:			JP 1995-49441	A 19950309

OTHER SOURCE(S): MARPAT 125:300982

IT 183125-45-3P

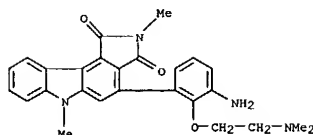
RL: BAC (Biological activity or effector, except adverse); BSU (Biological

study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of pyrrolocarbazole derivs. for treatment of thrombocytopenia)

RN 183125-45-3 CAPLUS

CN Pyrrolo[3,4-c]carbazole-1,3(2H,6H)-dione, 4-[3-amino-2-[2-(dimethylamino)ethoxy]phenyl]-2,6-dimethyl- (9CI) (CA INDEX NAME)



=> fil reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

9.96

2244.19

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-1.40

-7.70

FILE 'REGISTRY' ENTERED AT 15:54:03 ON 21 SEP 2004

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 20 SEP 2004 HIGHEST RN 748739-98-2

DICTIONARY FILE UPDATES: 20 SEP 2004 HIGHEST RN 748739-98-2

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

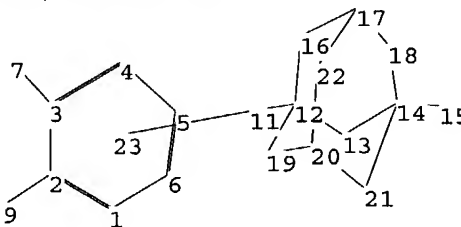
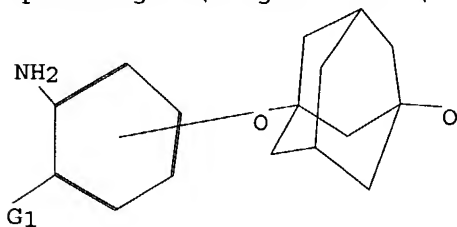
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10609456.str



chain nodes :

7 9 11 15

ring nodes :

1 2 3 4 5 6 12 13 14 16 17 18 19 20 21 22

chain bonds :

2-9 3-7 11-12 14-15

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 12-13 12-16 12-19 13-14 14-18 14-21 16-17

17-18 17-22 19-20 20-21 20-22

exact/norm bonds :

2-9 3-7 11-12 12-13 12-16 12-19 13-14 14-15 14-18 14-21 16-17 17-18

17-22 19-20 20-21 20-22

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

G1:O,S

G2:C,O,S,N

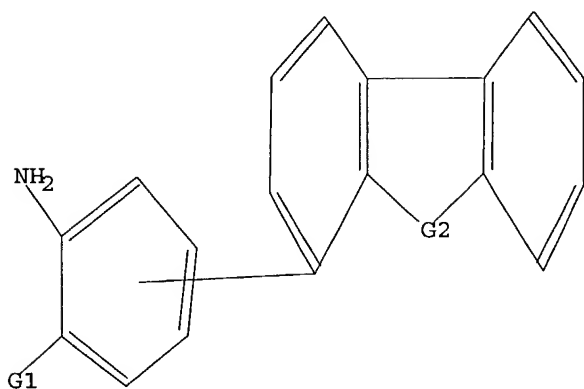
Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 9:CLASS 11:CLASS 12:Atom  
13:Atom 14:Atom 15:CLASS 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom  
22:Atom 23:CLASS

L51 STRUCTURE UPLOADED

=> d query

L51 STR



G1 O,S

G2 C,O,S,N

Structure attributes must be viewed using STN Express query preparation.

=> s l51

SAMPLE SEARCH INITIATED 15:54:43 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 5048 TO ITERATE

19.8% PROCESSED 1000 ITERATIONS  
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
SEARCH TIME: 00.00.01

0 ANSWERS

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 96700 TO 105220  
PROJECTED ANSWERS: 0 TO 0

L52 0 SEA SSS SAM L51

=> s l51 full

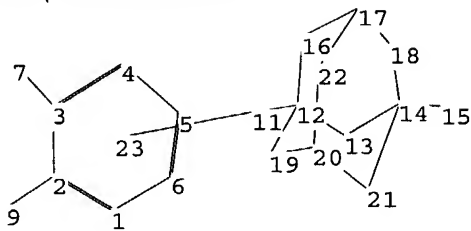
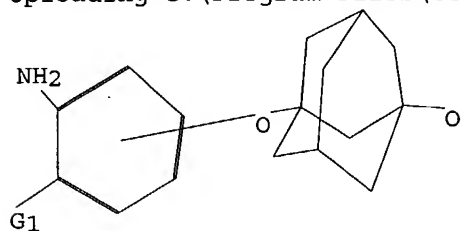
FULL SEARCH INITIATED 15:54:48 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 102567 TO ITERATE

100.0% PROCESSED 102567 ITERATIONS  
SEARCH TIME: 00.00.01

0 ANSWERS

L53 0 SEA SSS FUL L51

=>  
Uploading C:\Program Files\Stnexp\Queries\10609456.str



chain nodes :

7 9 11 15

ring nodes :

1 2 3 4 5 6 12 13 14 16 17 18 19 20 21 22

chain bonds :

2-9 3-7 11-12 14-15

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 12-13 12-16 12-19 13-14 14-18 14-21 16-17  
17-18 17-22 19-20 20-21 20-22

exact/norm bonds :

2-9 3-7 11-12 12-13 12-16 12-19 13-14 14-15 14-18 14-21 16-17 17-18  
17-22 19-20 20-21 20-22

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

G1:O,S

G2:C,O,S,N

Match level :

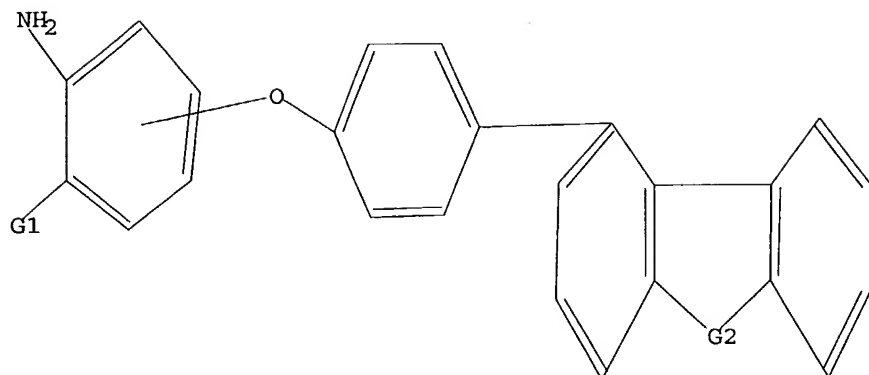
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 9:CLASS 11:CLASS 12:Atom  
13:Atom 14:Atom 15:CLASS 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom  
22:Atom 23:CLASS

L54 STRUCTURE UPLOADED

=> d query

L54 STR





G1 O,S

G2 C,O,S,N

Structure attributes must be viewed using STN Express query preparation.

=> s l54

SAMPLE SEARCH INITIATED 15:57:01 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 169 TO ITERATE

100.0% PROCESSED 169 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 2601 TO 4159

PROJECTED ANSWERS: 0 TO 0

L55 0 SEA SSS SAM L54

=> s l54 full

FULL SEARCH INITIATED 15:57:06 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 3754 TO ITERATE

100.0% PROCESSED 3754 ITERATIONS

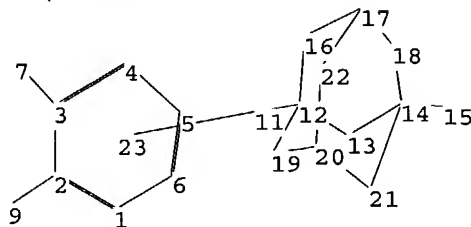
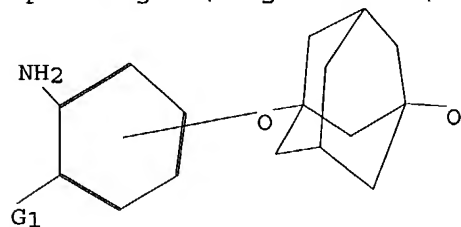
0 ANSWERS

SEARCH TIME: 00.00.01

L56 0 SEA SSS FUL L54

=>

Uploading C:\Program Files\Stnexp\Queries\10609456.str



```

chain nodes :
7 9 11 15
ring nodes :
1 2 3 4 5 6 12 13 14 16 17 18 19 20 21 22
chain bonds :
2-9 3-7 11-12 14-15
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 12-13 12-16 12-19 13-14 14-18 14-21 16-17
17-18 17-22 19-20 20-21 20-22
exact/norm bonds :
2-9 3-7 11-12 12-13 12-16 12-19 13-14 14-15 14-18 14-21 16-17 17-18
17-22 19-20 20-21 20-22
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6

```

G1:O,S

G2:C,O,S,N

Match level :

```

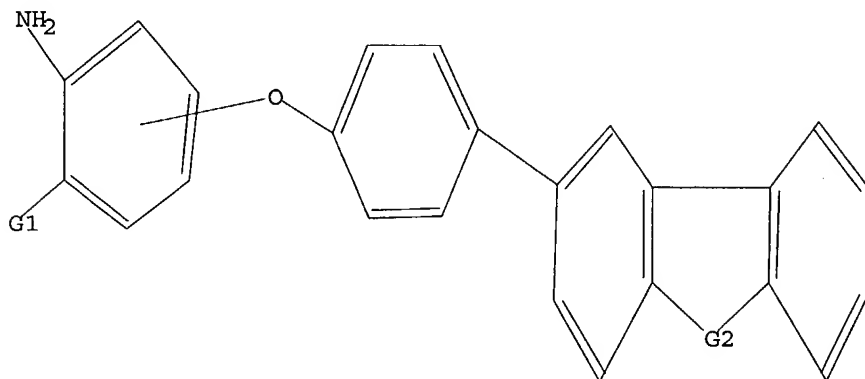
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 9:CLASS 11:CLASS 12:Atom
13:Atom 14:Atom 15:CLASS 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom
22:Atom 23:CLASS

```

L57 STRUCTURE UPLOADED

=> d query

L57 STR



G1 O,S

G2 C,O,S,N

Structure attributes must be viewed using STN Express query preparation.

=> s 157

SAMPLE SEARCH INITIATED 15:57:44 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 172 TO ITERATE

100.0% PROCESSED 172 ITERATIONS  
SEARCH TIME: 00.00.01

0 ANSWERS

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 2654 TO 4226  
PROJECTED ANSWERS: 0 TO 0

L58 0 SEA SSS SAM L57

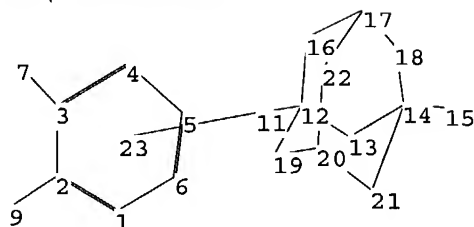
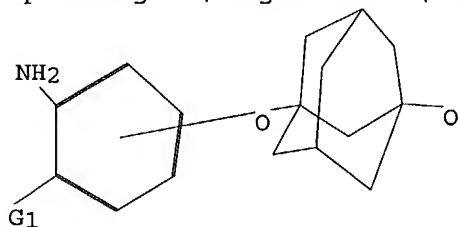
=> s l57 full  
FULL SEARCH INITIATED 15:57:49 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 3836 TO ITERATE

100.0% PROCESSED 3836 ITERATIONS  
SEARCH TIME: 00.00.01

0 ANSWERS

L59 0 SEA SSS FUL L57

=>  
Uploading C:\Program Files\Stnexp\Queries\10609456.str



chain nodes :  
7 9 11 15  
ring nodes :  
1 2 3 4 5 6 12 13 14 16 17 18 19 20 21 22  
chain bonds :  
2-9 3-7 11-12 14-15  
ring bonds :  
1-2 1-6 2-3 3-4 4-5 5-6 12-13 12-16 12-19 13-14 14-18 14-21 16-17  
17-18 17-22 19-20 20-21 20-22  
exact/norm bonds :  
2-9 3-7 11-12 12-13 12-16 12-19 13-14 14-15 14-18 14-21 16-17 17-18  
17-22 19-20 20-21 20-22  
normalized bonds :  
1-2 1-6 2-3 3-4 4-5 5-6

G1:O,S

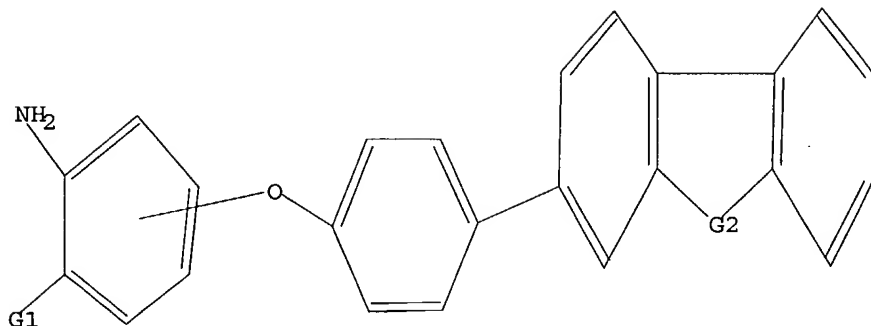
G2:C,O,S,N

Match level :  
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 9:CLASS 11:CLASS 12:Atom  
13:Atom 14:Atom 15:CLASS 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom  
22:Atom 23:CLASS

L60        STRUCTURE UPLOADED

=> d query

L60                STR



G1 O,S

G2 C,O,S,N

Structure attributes must be viewed using STN Express query preparation.

=> s l60

SAMPLE SEARCH INITIATED 15:58:27 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 180 TO ITERATE

100.0% PROCESSED        180 ITERATIONS  
SEARCH TIME: 00.00.01

0 ANSWERS

FULL FILE PROJECTIONS:    ONLINE    \*\*COMPLETE\*\*  
                              BATCH    \*\*COMPLETE\*\*  
PROJECTED ITERATIONS:            2796 TO        4404  
PROJECTED ANSWERS:                0 TO            0

L61                0 SEA SSS SAM L60

=> s l60 full

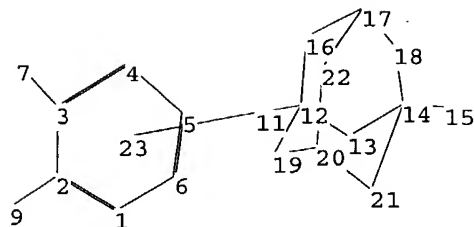
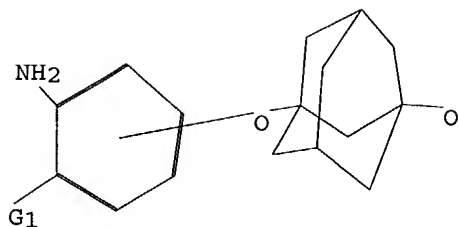
FULL SEARCH INITIATED 15:58:31 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 3890 TO ITERATE

100.0% PROCESSED        3890 ITERATIONS  
SEARCH TIME: 00.00.01

0 ANSWERS

L62                0 SEA SSS FUL L60

=>  
Uploading C:\Program Files\Stnexp\Queries\10609456.str



chain nodes :

7 9 11 15

ring nodes :

1 2 3 4 5 6 12 13 14 16 17 18 19 20 21 22

chain bonds :

2-9 3-7 11-12 14-15

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 12-13 12-16 12-19 13-14 14-18 14-21 16-17  
17-18 17-22 19-20 20-21 20-22

exact/norm bonds :

2-9 3-7 11-12 12-13 12-16 12-19 13-14 14-15 14-18 14-21 16-17 17-18  
17-22 19-20 20-21 20-22

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

G1:O,S

G2:C,O,S,N

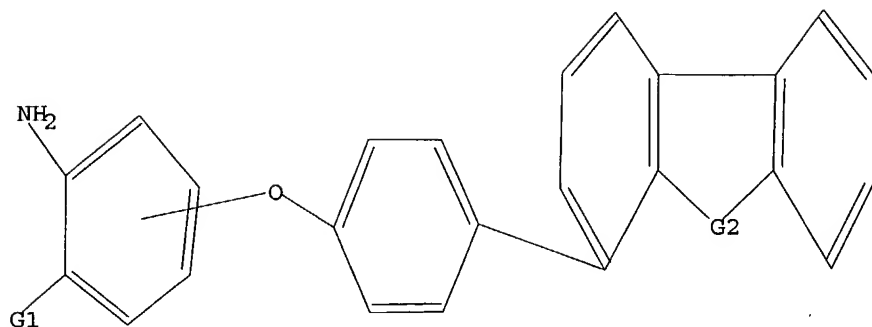
Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 9:CLASS 11:CLASS 12:Atom  
13:Atom 14:Atom 15:CLASS 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom  
22:Atom 23:CLASS

L63 STRUCTURE UPLOADED

=> d query

L63 STR



G1 O,S

G2 C,O,S,N

Structure attributes must be viewed using STN Express query preparation.

=> s 163

SAMPLE SEARCH INITIATED 15:59:11 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 168 TO ITERATE

100.0% PROCESSED 168 ITERATIONS  
SEARCH TIME: 00.00.01

0 ANSWERS

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 2583 TO 4137  
PROJECTED ANSWERS: 0 TO 0

L64 0 SEA SSS SAM L63

=> s 163 full

FULL SEARCH INITIATED 15:59:16 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 3718 TO ITERATE

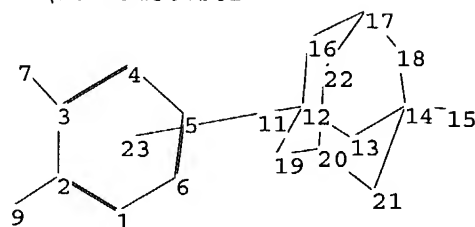
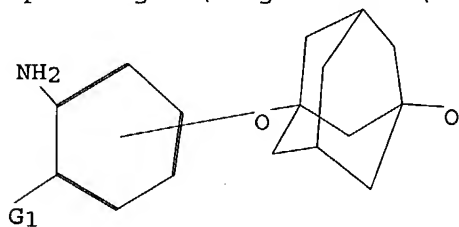
100.0% PROCESSED 3718 ITERATIONS  
SEARCH TIME: 00.00.01

0 ANSWERS

L65 0 SEA SSS FUL L63

=>

Uploading C:\Program Files\Stnexp\Queries\10609456.str



chain nodes :  
7 9 11 15

```

ring nodes :
1  2  3  4  5  6  12  13  14  16  17  18  19  20  21  22
chain bonds :
2-9  3-7  11-12  14-15
ring bonds :
1-2  1-6  2-3  3-4  4-5  5-6  12-13  12-16  12-19  13-14  14-18  14-21  16-17
17-18  17-22  19-20  20-21  20-22
exact/norm bonds :
2-9  3-7  11-12  12-13  12-16  12-19  13-14  14-15  14-18  14-21  16-17  17-18
17-22  19-20  20-21  20-22
normalized bonds :
1-2  1-6  2-3  3-4  4-5  5-6

```

G1:O,S

G2:C,O,S,N

Match level :

```

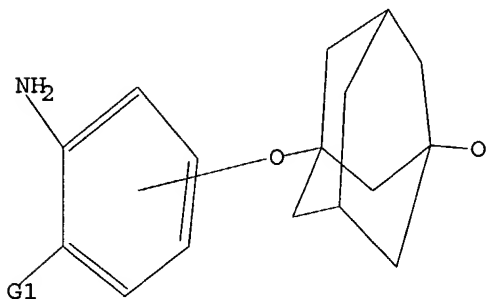
1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:Atom  7:CLASS  9:CLASS  11:CLASS  12:Atom
13:Atom  14:Atom  15:CLASS  16:Atom  17:Atom  18:Atom  19:Atom  20:Atom  21:Atom
22:Atom  23:CLASS

```

L66        STRUCTURE UPLOADED

=> d query

L66                STR



G1 O,S

G2 C,O,S,N

Structure attributes must be viewed using STN Express query preparation.

=> s l66

SAMPLE SEARCH INITIATED 16:00:52 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 179 TO ITERATE

100.0% PROCESSED        179 ITERATIONS  
SEARCH TIME: 00.00.01

0 ANSWERS

FULL FILE PROJECTIONS:    ONLINE    \*\*COMPLETE\*\*

BATCH      \*\*COMPLETE\*\*  
PROJECTED ITERATIONS:      2778 TO      4382  
PROJECTED ANSWERS:      0 TO      0

L67      0 SEA SSS SAM L66

=> s l66 full  
FULL SEARCH INITIATED 16:00:56 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED -      3749 TO ITERATE

100.0% PROCESSED      3749 ITERATIONS      0 ANSWERS  
SEARCH TIME: 00.00.01

L68      0 SEA SSS FUL L66

=> logoff y		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	935.04	3179.23
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-7.70

STN INTERNATIONAL LOGOFF AT 16:01:00 ON 21 SEP 2004